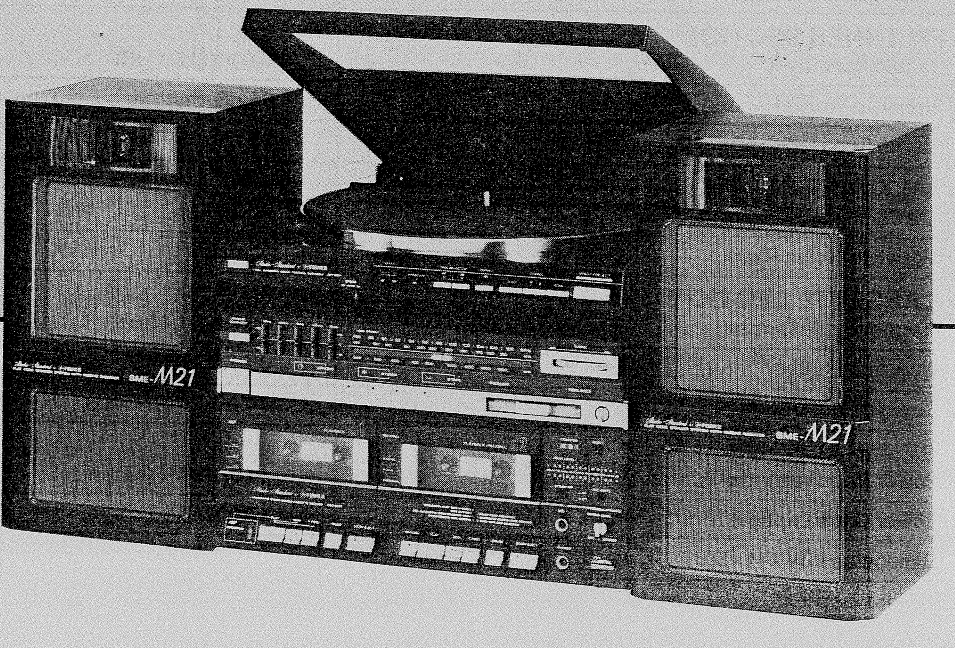
SERVICE MANUAL

FISHER

TAC-M21

LW/MW/FM Stereo Double Cassette Receiver

(EUROPE)



132 279 42
(Black)
132 279 43
(Red)
132 279 44
(Pearl White)

NOTE:

The photograph on the cover shows the BLACK version of the TAC-M21.
The PEARL WHITE and RED version is identical in all respects.

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NOTES:
Schematic Diagram and Point to Point Wiring Diagram are separately attached to this manual.

SPECIFICATIONS

LW/MW/FM Stereo Double Cassette Receiver	TAC-M21
AMPLIFIER SECTION **Minimum RMS sine wave power per channel at 8 ohms within rated bandwidth at no more than rated THD**	**20 Watts**
Power Bandwidth	**60 Hz – 20 kHz**
Total Harmonic Distortion	**0.9 %**
FM TUNER SECTION Usable Sensitivity	4.0 μV/17.1 dBf
Signal-to-Noise Ratio	65 dB
Stereo Separation at 1 kHz	35 dB
AM TUNER SECTION Usable Sensitivity	400 μV/m
Signal-to-Noise Ratio	45 dB
CASSETTE SECTION Frequency Response	50 Hz – 14 kHz
Wow and Flutter	0.07 % WRMS
Channel Separation	40 dB
GENERAL Power Requirements (50 Hz)	110/220 V AC
Power Consumption	176 Watts
Dimensions (W x H x D)	335 x 188 x 335 mm
Weight (approx.)	7.8 kg

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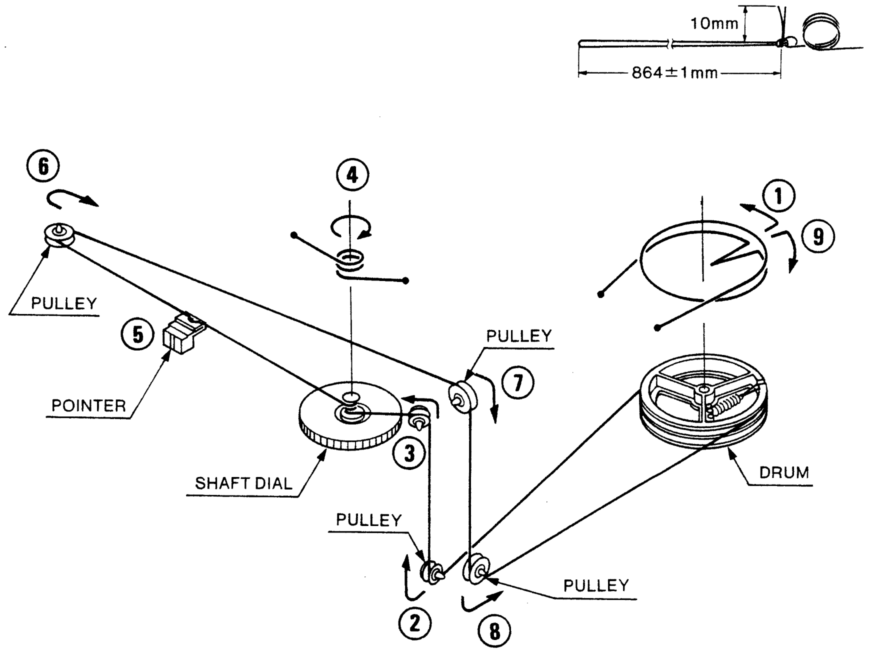
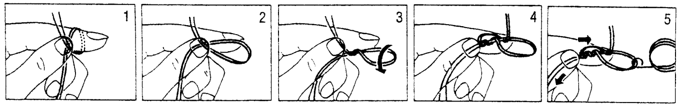
DIAL CORD STRINGING

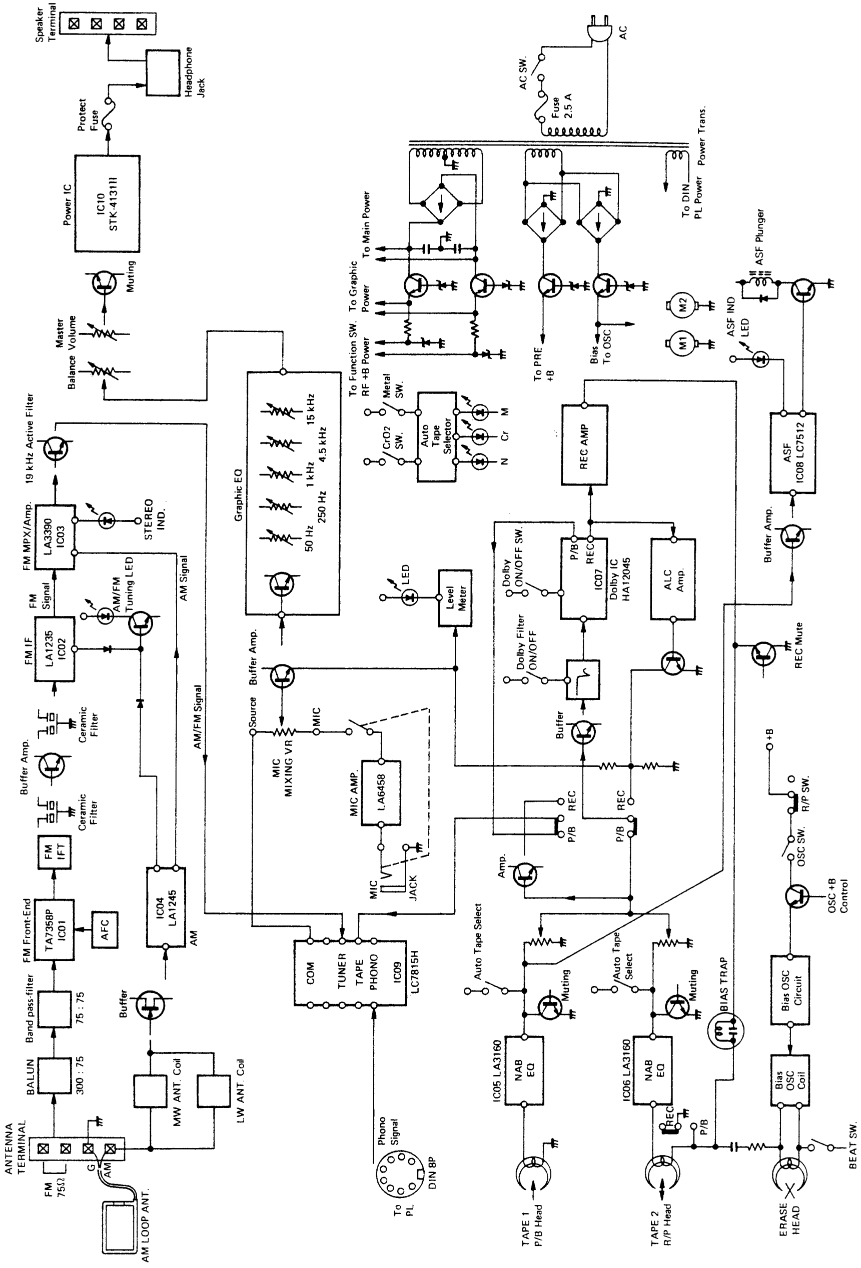


DIAL CORD KNOTTING



NOTE: Check to see that the dial cord is correctly strung by turning the dial.

FUNCTIONAL BLOCK DIAGRAM



Speaker Terminal
Headphone Jack
Protect Fuse
Power IC
IC10 STK-4131II
Muting
Master Volume
Balance Volume
19 kHz Active Filter
FM MPX/Amp.
LA3390 IC03
STEREO IND.
FM Signal
AM/FM Tuning LED
FM IF
LA1235 IC02
AM Signal
AM/FM Signal
Ceramic Filter
Buffer Amp.
Ceramic Filter
FM IFT
FM Front-End
TA7358P IC01
AFC
IC04 LA1245
AM
Band pass filter
75 : 75
Buffer
BALUN
300 : 75
MW ANT. Coil
LW ANT. Coil
ANTENNA TERMINAL
FM 75Ω
G
AM
AM LOOP ANT.
Graphic EQ
15 kHz
4.5 kHz
1 kHz
250 Hz
50 Hz
Buffer Amp.
Source
MIC
MIC MIXING VR
MIC AMP.
LA6458
MIC JACK
COM
TUNER
TAPE
PHONO
IC09
LC7815H
Phono Signal
To PL
DIN 8P
AC
AC SW.
Fuse 2.5 A
Power Trans.
To DIN PL Power
To Main Power
To Graphic Power
To Function SW. RF +B Power
To PRE +B
Bias To OSC
M2
M1
ASF Plunger
ASF IND LED
CrO2 SW.
Metal SW.
Auto Tape Selector
M
Cr
N
REC AMP
ASF IC08 LC7512
Buffer Amp.
LED
Level Meter
Dolby ON/OFF SW.
P/B
REC
IC07
Dolby IC HA12045
ALC Amp.
Dolby Filter ON/OFF
Buffer
REC Mute
+B
R/P SW.
OSC SW.
OSC +B Control
REC
P/B
REC
P/B
Amp.
Auto Tape Select
Muting
Auto Tape Select
Muting
BIAS TRAP
Bias OSC Circuit
IC05 LA3160
NAB EQ
IC06 LA3160
NAB EQ
REC
P/B
Bias OSC Coil
TAPE 1 P/B Head
TAPE 2 R/P Head
ERASE HEAD
BEAT SW.

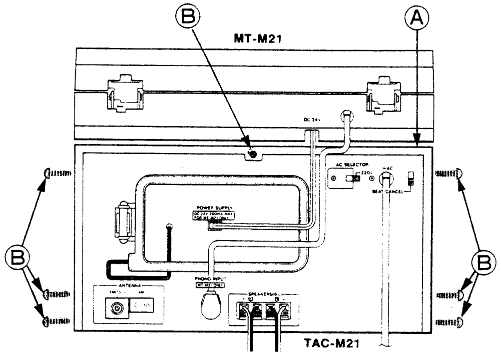
DISASSEMBLY INSTRUCTIONS

GENERAL REMARKS

Before disassembling the unit, spread a soft rubber mat or a cloth on the work bench to avoid scratches and grease spots on the unit.
Reassemble the unit correctly noting the kinds of fastening screws and leads. Please refer to the wiring diagrams and exploded views.

A. REMOVAL OF CABINET COVER

1. Remove the seven screws (B) fastening Cabinet Cover (A). (Fig. 1)



B
A
MT-M21
B
B
TAC-M21

(REAR PANEL)

Fig.1

2. Pull the Cabinet Cover backward. Then, Cabinet Cover can be completely separated from the unit.

B. REMOVAL OF BOTTOM PLATE

1. Turn the unit upside down. Then, remove the four screws (D) fastening the Bottom Plate (C).
   The removal of the Bottom Plate will give an access to the repair or adjustment work of AF/RF P.C.Board. (Fig. 2)

(FRONT PANEL)

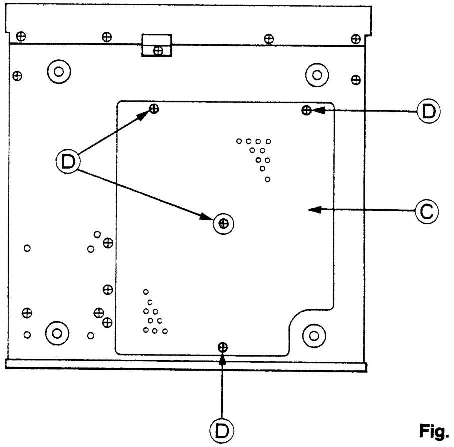
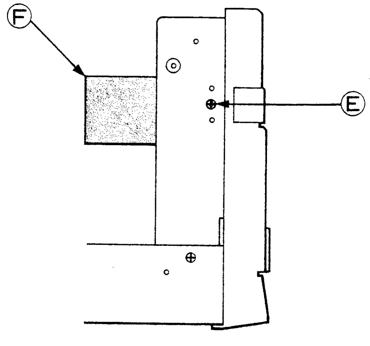


Fig. 2

C. REMOVAL OF FRONT PANEL

1. Pull out all the connectors from the Cassette Deck Mechanism and P.C.Boards to AF/RF P.C.Board.
2. Remove the screw (E) on the left side of the Front Panel. Then, remove AC Switch P.C.Board (F). (Fig. 3)



(FRONT PANEL)

Fig. 3

DISASSEMBLY INSTRUCTIONS (Continued)

3. Disengage the Dial Cord and the R/P Switch Spring.

4. Turn the unit upside down. Then, remove four screws (G) and the Metal Mount (H) fastening the Front Panel. (Fig. 4)

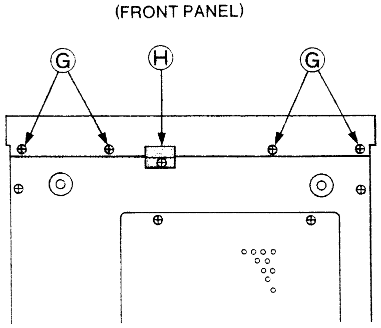

(FRONT PANEL)
G
H
G

Fig. 4

5. Remove the three screws (I) fastening the Front Panel. Then, Front Panel can be completely separated from the unit. (Fig. 5)

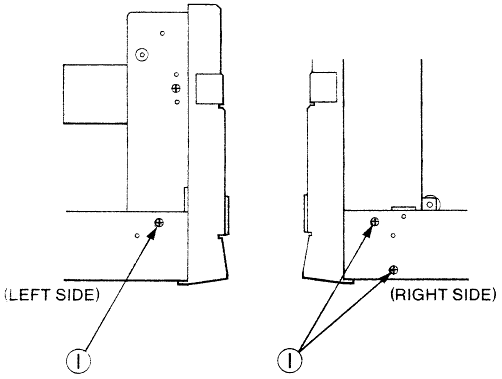

(LEFT SIDE)
(RIGHT SIDE)
I
I

Fig. 5

D. REMOVAL OF CASSETTE DECK MECHANISM

1. After the Front Panel is separated from the unit, remove the four screws (J) fastening the Cassette Deck Mechanism and the four screws (K) fastening the Bottom of the Mechanism. (Fig. 6)

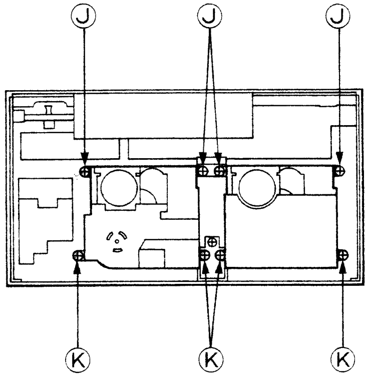
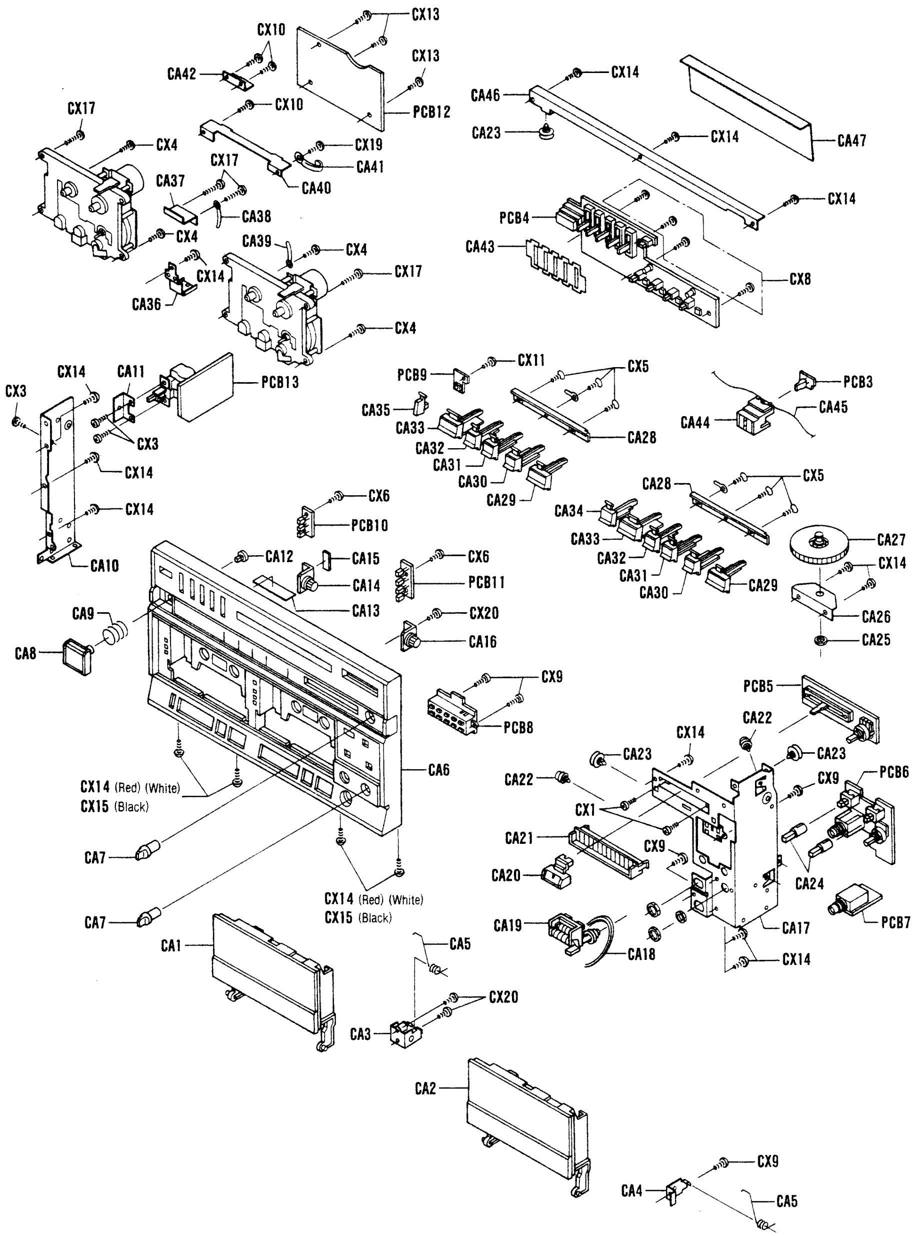


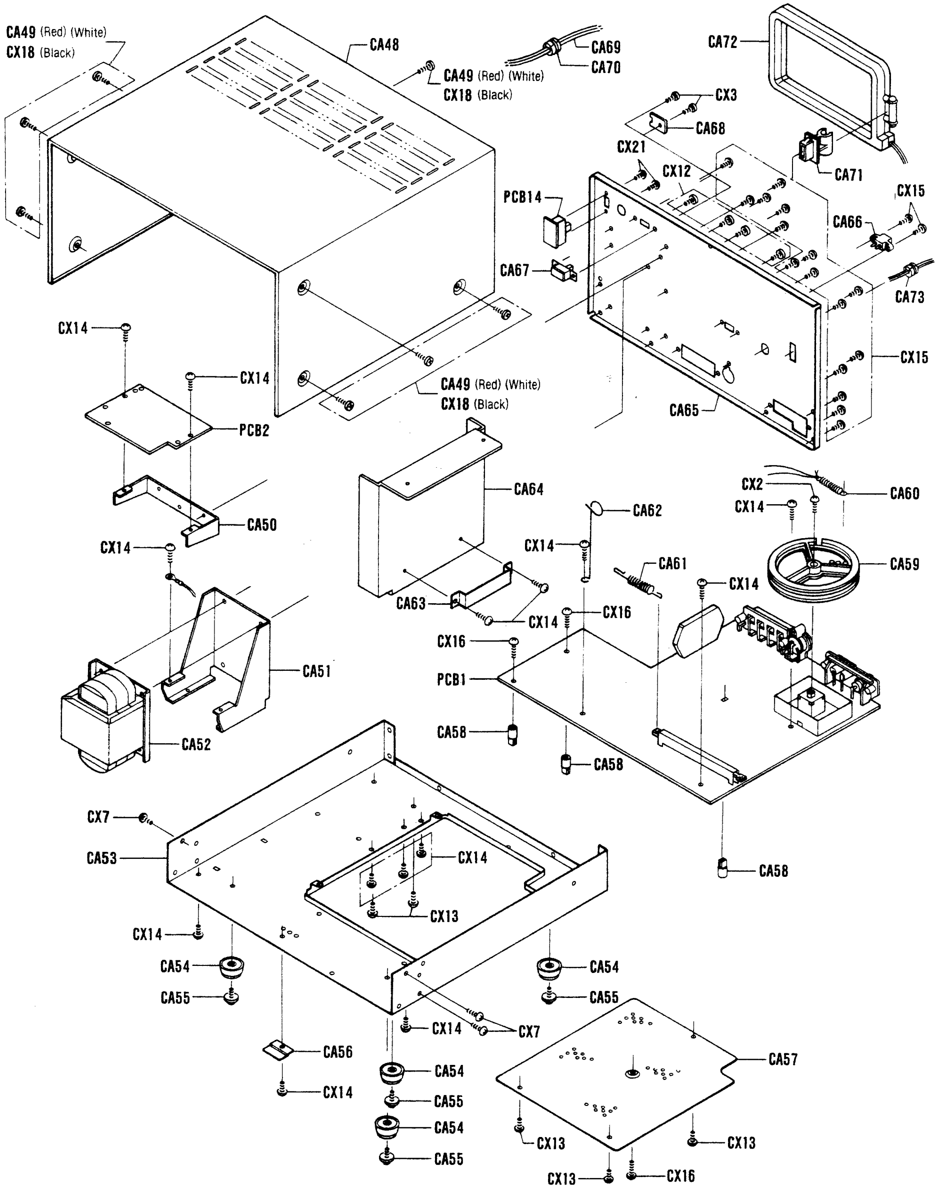
Fig. 6

2. Then, the Cassette Deck Mechanism can be completely separated from the unit.
Secure the screws firmly after the repair or adjustment is completed.

CABINET & CHASSIS EXPLODED VIEW (1)


CX13
CX10
CX13
CA42
CX10
PCB12
CX14
CA46
CX17
CA23
CX14
CA47
CX4
CX19
CX17
CA41
CA37
CA40
CX14
CA38
PCB4
CX4
CA39
CX4
CA43
CX14
CX17
CX8
CA36
CX4
CX14
CA11
PCB13
PCB9
CX11
CX5
PCB3
CX3
CA35
CA45
CX3
CA33
CA28
CA44
CA32
CX14
CA31
CA30
CA28
CX5
CX6
CA29
CA34
CX14
PCB10
CA33
CA27
CA10
CA12
CA15
CX6
CA32
CX14
CA14
PCB11
CA31
CA29
CA9
CA13
CX20
CA30
CA26
CA16
CA25
CA8
CX9
PCB5
CA22
PCB8
CX14
CA23
CA23
CA6
CA22
CX9
PCB6
CX14 (Red) (White)
CX15 (Black)
CX1
CA21
CX9
CA7
CA20
CA24
CX14 (Red) (White)
CX15 (Black)
CA7
CA19
CA17
PCB7
CA1
CA5
CA18
CX14
CX20
CA3
CA2
CX9
CA4
CA5

CABINET & CHASSIS EXPLODED VIEW (2)



CABINET & CHASSIS PARTS LIST

PACKING PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	131 6 2119 02470	Bag Polyethylene-Exp.	1
	131 6 3009 35070	Pad (Rear)	1
	131 6 3009 35080	Pad (Front)	1
	131 6 3009 35550	Pad (Loop Antenna)	1
	131 6 3069 17080	Patching Sheet	1
	131 6 4559 10900	Manufacturing No.	2
	141 6 1139 99500	Box Corrugate-Exp. **(Black)**	1
	141 6 1139 99501	Box Corrugate-Exp. **(Red)**	1
	141 6 1139 99502	Box Corrugate-Exp. **(Pearl White)**	1

ACCESSORIES PARS LIST

Ref. No.	Part No.	Description	Q'ty
	102 3 1703 00816	Screw, Bind Hd. Tapping-1, +M3.0x8	2
	131 0 4012 00180	FM Antenna Assy	1
	131 6 2719 10801	Bag Fan	1
	131 6 4519 15700	Guarantee Certificate	1
	141 2 1729 00500	Holder Antenna	1
	142 6 4119 32148	Explanatory Booklet	1

CABINET & CHASSIS PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	4 2379 21520	Terminal Lug	2
	4 2379 21523	Terminal Lug	2
CA1	141 0 1249 27312	Lid Cassette Assy (Tape 1) **(Black)**	1
CA1	141 0 1249 27313	Lid Cassette Assy (Tape 1) **(Pearl White)**	1
CA1	141 0 1249 27315	Lid Cassette Assy (Tape 1) **(Red)**	1
	103 3 1702 60611	Screw, Bind Hd. Tapping-2, +M2.6x6	2
	141 2 1249 39800	Lid Cassette **(Pearl White)**	1
	141 2 1249 39801	Lid Cassette **(Black, Red)**	1
	141 2 1329 13402	Window Lid Cassette	1
	141 2 1449 58312	Decoration Plate **(Black)**	1
	141 2 1449 58313	Decoration Plate **(Pearl White)**	1
	141 2 1449 58315	Decoration Plate **(Red)**	1
	141 2 1519 40800	Decorative Lid Cassette	2
	141 2 4539 35700	Washer	2
CA2	141 0 1249 27305	Lid Cassette Assy (Tape 2) **(Black)**	1
CA2	141 0 1249 27314	Lid Cassette Assy (Tape 2) **(Pearl White)**	1
CA2	141 0 1249 27316	Lid Cassette Assy (Tape 2) **(Red)**	1
	103 3 1702 60611	Screw, Bind Hd. Tapping-2, +M2.6x6	2
	141 2 1249 39800	Lid Cassette **(Pearl White)**	1
	141 2 1249 39801	Lid Cassette **(Black, White)**	1
	141 2 1329 13401	Window Lid Cassette	1
	141 2 1449 58305	Decoration Plate **(Black)**	1
	141 2 1449 58314	Decoration Plate **(Pearl White)**	1
	141 2 1449 58316	Decoration Plate **(Red)**	1
	141 2 1519 40800	Decorative Lid Cassette	2
	141 2 4539 35700	Washer	2
CA3	141 2 2629 05800	Bracket Lid Cassette	1
CA4	141 2 2629 05900	Bracket Lid Caseette	1
CA5	141 2 8549 16300	Spring Lid Cassette	2
CA6	141 0 1119 98906	Cabinet Front Assy **(Black)**	1
CA6	141 0 1119 98907	Cabinet Front Assy **(Pearl White)**	1
CA6	141 0 1119 98908	Cabinet Front Assy **(Red)**	1
	131 2 1110 36400	Plate Decorate	1
	131 2 1110 36500	Plate Decorate	1
	131 2 1110 36600	Plate Decorate	1
	131 2 1110 36700	Plate Decorate **(Pearl White)**	1
	131 2 1110 36701	Plate Decorate **(Red)**	1
	131 2 1110 36702	Plate Decorate **(Black)**	1
	131 2 1201 39805	Plate Dial **(Black, Red)**	1
	131 2 1201 39806	Plate Dial **(Pearl White)**	1
	131 2 1202 22102	Escutcheon **(Black)**	1
	131 2 1202 22106	Escutcheon **(Pearl White)**	1
	131 2 1202 22107	Escutcheon **(Red)**	1
	131 2 1203 61701	Panel Control	1
	131 2 4208 45400	Spacer	4
	131 2 4208 45900	Spacer	2
	141 2 1519 24700	Reflector	2
CA7	141 2 1659 12802	Knob (Mic/Balance)	2
CA8	131 0 1001 63100	Knob (Power Switch) **(Pearl White)**	1
CA8	131 0 1001 63101	Knob (Power Switch) **(Red)**	1
CA8	131 0 1001 63104	Knob (Power Switch) **(Black)**	1
CA9	131 2 5101 23500	Spring (Power Knob)	1
CA10	131 2 3101 95900	Metal Mount (Power Switch)	1
CA11	131 2 3101 97800	Metal Mount (Power Switch)	1
CA12	131 2 4219 18700	Shaft (Power Knob)	1
CA13	131 2 6110 32600	Shelter Light **(Red)**	1
CA14	141 0 5519 08505	Gear Eject Assy (Tape 1)	1
CA15	131 2 5205 31800	Cushion	1
CA16	141 0 5519 08502	Gear Eject Assy (Tape 2)	1
CA17	131 2 3101 96000	Metal Mount (Volume)	1
CA18	141 2 5649 04300	Belt Counter	1
CA19	141 2 8119 13200	Counter	1
CA20	131 2 1601 89600	Knob (Master Volume)	1
CA21	131 2 6113 50500	Shelter (Master Volume)	1
CA22	131 0 3020 11800	Pully Assy	2
CA23	131 0 3020 11000	Pully Assy	3
CA24	131 2 1601 89700	Knob (Rec Mute/Dolby)	2
CA25	131 2 4202 12700	Nut	1
CA26	131 2 3101 96100	Metal Mount (Shaft Dial)	1
CA27	131 0 3003 23500	Shaft Dial Assy	1
CA28	141 2 2629 04901	Holder Button	2
CA29	141 2 1659 19700	Button Eject	2
CA30	141 2 1659 19600	Button Pause	2
CA31	141 2 1659 19500	Button FF	2
CA32	141 2 1659 19400	Button Rewind	2
CA33	141 2 1659 19300	Button Play	2
CA34	141 2 1659 19200	Button Recod	1
CA35	131 2 1601 89800	Knob (ASF Switch)	1
CA36	131 2 3101 96200	Metal Mount (Cassette)	1
CA37	131 2 3202 14700	Metal Reinf (Cassette)	1
CA38	131 2 3608 16300	Cramp Wire	1
CA39	141 2 4729 04200	Lug	1
CA40	131 2 3101 96400	Metal Mount	1
CA41	141 2 4729 04100	Lug	1
CA42	131 2 3101 96300	Metal Mount	1
CA43	131 2 6110 32300	Shelter Light	1
CA44	131 2 4101 23300	Pointer	1
CA45	131 2 4112 10201	Rope Dial	1
CA46	131 2 3202 14600	Metal Reinf	1
CA47	131 2 6110 32400	Shelter Light	1
CA48	131 2 1410 31300	Cover **(Pearl White)**	1
CA48	131 2 1410 31301	Cover **(Red)**	1
CA48	131 2 1410 31302	Cover **(Black)**	1
CA49	131 2 4201 27103	Screw, Bind Hd. Tap.-B, +M3.0x6 **(Red, Pearl White)**	7
CA50	131 2 3614 27500	Mount P.C.B.	1
CA51	131 2 3101 98400	Metal Mount	1
CA52	⚠ 4 2512 22420	Power Trans	1
CA53	131 2 3301 30800	Chassis	1
CA54	131 2 1801 12900	Leg	4
CA55	131 2 4201 25200	Screw, Brazier Hd. Tapping-B, +M3.0x6 Sems	4

CABINET & CHASSIS PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
CA56	*131 2 3202 15000*	*Metal Reinf*	1
CA57	131 2 1105 30300	Plate Bottom	1
CA58	131 2 3614 20300	Mount P.C.B.	3
CA59	131 2 4109 12100	Drum	1
CA60	131 2 4111 00200	Spring Rope	1
CA61	131 2 5101 23600	Spring	1
CA62	131 2 3608 16200	Cramp Wire	1
CA63	131 2 3101 90000	Metal Mount (IC)	1
CA64	131 2 6201 35100	Plate Heat Sink	1
CA65	131 2 3306 39104	Panel Rear	1
CA66	⚠ 4 2359 74031	2P Socket (Power Supply)	1
CA67	⚠ 4 2312 02650	Switch Slide 3P (Voltage Selector)	1
CA68	131 2 7104 00500	Plate Pad Switch	1
CA69	⚠ 4 2432 00071	Power Cord	1
CA70	131 2 6111 11300	Bushing (Power Cord)	1
CA71	141 2 3849 04400	Holder Antenna	1
CA72	4 2579 71910	Loop Antenna	1
CA73	131 2 6111 14200	Bushing (Antenna Cord)	1
PCB1	141 0 1939 07071	AF/RF P.C.B. Assy	1
PCB2	141 0 1939 07082	Power Supply P.C.B. Assy	1
PCB3	141 0 1939 07090	Pointer P.C.B. Assy	1
PCB4	141 0 1939 07101	Graphic EQ. P.C.B. Assy **(Black, Red)**	1
PCB4	141 0 1939 07102	Graphic EQ. P.C.B. Assy **(Pearl White)**	1
PCB5	141 0 1939 07110	Volume P.C.B. Assy	1
PCB6	141 0 1939 07121	Mic Mixing P.C.B. Assy	1
PCB7	141 0 1939 07130	Headphone Jack P.C.B. Assy	1
PCB8	141 0 1939 07140	Level Meter P.C.B. Assy	1
PCB9	141 0 1939 07150	ASF Switch P.C.B. Assy	1
PCB10	141 0 1939 07160	ASF Indicator P.C.B. Assy	1
PCB11	141 0 1939 07170	Auto Tape Indicator P.C.B. Assy	1
PCB12	141 0 1939 07180	ASF Control P.C.B. Assy	1
PCB13	141 0 1939 02632	AC Switch P.C.B. Assy	1
PCB14	141 0 1939 07630	Beat Switch P.C.B. Assy	1

Ref. No.	Part No.	Description	Q'ty
CX1	101 3 1302 00311	Screw, Pan Hd., +M2.0x3	2
CX2	101 3 1302 60811	Screw, Pan Hd., +M2.6x8	1
CX3	101 3 1303 00618	Screw, Pan Hd., +M3.0x6	5
CX4	101 3 1703 01011	Screw, Bind Hd., +M3.0x10	4
CX5	103 3 1202 60811	Screw, Flat Hd. Tapping-B, +M2.6x8	6
CX6	143 3 1302 60611	Screw, Pan Hd. Tapping-B, +M2.6x6	2
CX7	143 3 1303 00611	Screw, Pan Hd. Tapping-B, +M3.0x6	3
CX8	143 3 1303 00811	Screw, Pan Hd. Tapping-B, +M3.0x8	4
CX9	143 3 1702 60611	Screw, Bind Hd. Tapping-B, +M2.6x6	5
CX10	143 3 1702 60618	Screw, Bind Hd. Tapping-B, +M2.6x6	3
CX11	143 3 1702 61011	Screw, Bind Hd. Tapping-B, +M2.6x10	1
CX12	143 3 1804 00818	Screw, Truss Hd. Tapping-B, +M4.0x8	4
CX13	143 3 1903 00611	Screw, Brazier Hd. Tapping-B, +M3.0x6	8
CX14	143 3 1903 00811	Screw, Brazier Hd. Tap.-B, +M3.0x8 **(Black)**	26
CX14	143 3 1903 00811	Screw, Brazier Hd. Tap.-B, +M3.0x8 **(Red, Pearl White)**	30
CX15	143 3 1903 00818	Screw, Brazier Hd. Tap.-B, +M3.0x8 **(Black)**	22
CX15	143 3 1903 00818	Screw, Brazier Hd. Tap.-B, +M3.0x8 **(Red, Pearl White)**	18
CX16	143 3 1903 01411	Screw, Brazier Hd. Tapping-B, +M3.0x14	3
CX17	141 3 1903 06110	Screw, Brazier Hd. Tapping-B, +M3.0x16	4
CX18	143 3 1703 00618	Screw, Bind Hd. Tapping-B, +M3.0x6 **(Black)**	7
CX19	143 3 1702 61018	Screw, Bind Hd. Tapping-B, +M2.6x10	1
CX20	143 3 1702 60811	Screw, Bind Hd. Tapping-B, +M2.6x8	3
CX21	101 3 1302 60618	Screw, Pan Hd., +M2.6x6	2

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CASSETTE DECK ELECTRICAL ADJUSTMENTS

EQUIPMENT REQUIRED

- Audio Signal Generator
- Attenuator
- Frequency Counter
- VTVM (2 sets)
- Dummy Load (47 kΩ)
- Dualtrace Synchroscope
- Frequency Counter
- DC Voltage Regulator
- Test Tapes
  - * 3kHz Test Tape (Example: TEAC MTT-111) for Tape Speed Adjustment
  - * 10kHz Test Tape (Example: TEAC MTT-114) for Head Azimuth Adjustment
  - * Test Tape for DOLBY Calibration Level (Example: TEAC MTT-150) in Playback Gain Adjustment
- Test Tapes for Recording and Playback Operations
  - * Normal Tape (Example: TDK AC-223)
  - * CrO₂ Tape (Example: TDK AC-512)
  - * Metal Tape (Example: TDK AC-712)
- Alignment Tool

CLEANING AND DEMAGNITIZATION OF THE HEAD

If the tape-contacting surfaces of the parts such as the head, the capstan and the pinch roller are dirty, it results to irregular tape running, imperfect recording and erasing, tone deterioration, and the curling of the tape at the capstan.

- **Cleaning Method**

1. Wipe the head, the capstan, and the pinch roller clean with a cleaning cotton swab. If they are extremely dirty, use a cotton swab moistened in absolute alcohol or cleaning liquid.

- **Head Demagnitization**

  The head is magnitized after long usage and it results to noise and tone deterioration. Therefore, demagnitize the head with a demagnitizer. Be sure to turn off the power source.

TAPE SPEED ADJUSTMENT

1. Connect the frequency counter to the Speaker Terminal. Then, insert a 3kHz test tape (Example: TEAC MTT-111 or its equivalent) into the cassette compartment.

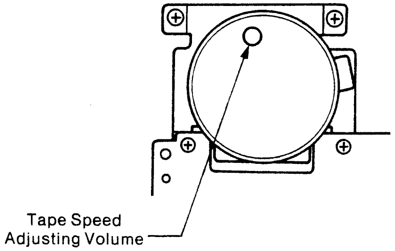


Fig.1

2. Adjust the tape speed by slowly turning the Adjusting Volume inside the motor until the frequency counter reads 3000 ~ 3060Hz.

HEAD AZIMUTH ADJUSTMENT

1. Connect the synchroscope and the VTVM to Speaker Terminal.
2. Insert a 10kHz test tape (Example: TEAC MTT-114 or its equivalent) into the cassette compartment. While playing back the test tape, turn the azimuth adjusting screw until the reading on the VTVM becomes maximum.

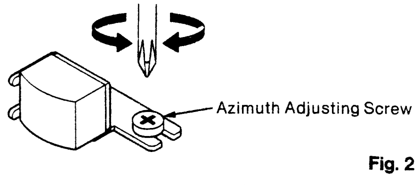
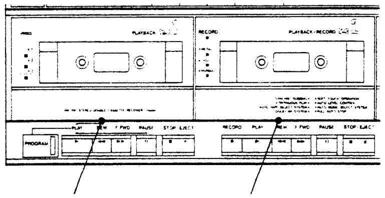


Fig. 2



Insert a screwdriver into this hole and perform the adjustment.

Fig. 3

3. After the adjustment, secure the adjusting screw with paint or glue.

PLAYBACK GAIN ADJUSTMENT (TAPE 1)

LEFT CHANNEL

1. Connect the VTVM to the Dolby test point TP08 and insert a test tape for Dolby Calibration Level (Example: TEAC MTT-150) into the cassette compartment.
2. Check that the VTVM reads 580mV for the output of the left channel while playing back the test tape.
3. If necessary, adjust the output to the specified one by turning VR03 while the test tape is played back.

RIGHT CHANNEL

Connect the VTVM to the Dolby test point TP09. Then, adjust VR04 for the right channel by following the same procedure as in LEFT CHANNEL.

PLAYBACK GAIN ADJUSTMENT (TAPE 2)

LEFT CHANNEL

1. Connect the VTVM to the Dolby test point TP08 and insert a test tape for Dolby Calibration Level (Example: TEAC MTT-150) into the cassette compartment.
2. Check that the VTVM reads 580mV for the output of the left channel while playing back the test tape.

CASSETTE DECK ELECTRICAL ADJUSTMENTS (Continued)

3. If necessary, adjust the output to the specified one by turning VR05 while the test tape is played back.

RIGHT CHANNEL

Connect the VTVM to the Dolby test point TP09. Then, adjust VR06 for the right channel by following the same procedure as in LEFT CHANNEL.

BIAS FREQUENCY ADJUSTMENT

Set the switches to the following positions.

- FUNCTION Switch ——→ TAPE
- Connect the Pick-up Coil into the Frequency Counter.

1. Allow the Pick-up Coil to come near the OSC Coil (T10). Then, insert a metal tape (TDK AC-711) into the cassette deck and set the deck in the recording mode. Then, adjust the bias frequency to 82.5±0.05kHz by turning the core of the Bias OSC Coil.

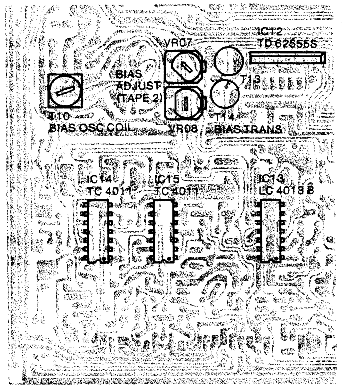
BIAS CURRENT ADJUSTMENT

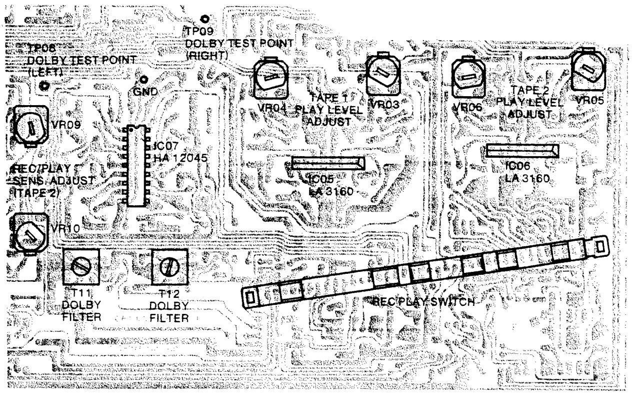
1. Set the unit in the recording mode. Apply the 1kHz signal at −32dBs through AUX to the unit.
2. Connect the VTVM to Dolby test point (TP08). Record the signal on the normal tape (TDK AC-223).
3. Change the input signal to 12.5kHz. Then, adjust VR07 (Left) and VR08 (Right), so that the output deviation between the 1kHz and 12.5kHz signals becomes −2 ~ −3dB.
4. Record the chrome tape (TDK AC-512) and play it back. Insert the RT pin for chrome to the place where the output deviation between the 1kHz and 12.5kHz signals becomes 0dB±3dB.
5. Record the metal tape (TDK AC-711) and play it back. Insert the RT pin for metal as described in item 4.

RECORD/PLAY SENSITIVITY ADJUSTMENT

1. Set the unit in the recording mode. Apply the 1kHz signal through AUX to the unit.
2. Connect the VTVM to Dolby test point (TP08). Record the metal tape (TDK AC-711) and play it back. Then, adjust VR09 (Left) and VR10 (Right) until the voltage becomes 580mV±1dB.

P.C.BOARD ALIGNMENT POINTS
(CASSETTE SECTION)


IC12
TD 62555S
VR07
BIAS
ADJUST
(TAPE 2)
T13
T10
BIAS OSC COIL
VR08
T14
BIAS TRANS
IC14
TC 4011
IC15
TC 4011
IC13
LC 4013 B


TP09
DOLBY TEST POINT
(RIGHT)
TP08
DOLBY TEST POINT
(LEFT)
GND
VR04
TAPE 1
PLAY LEVEL
ADJUST
VR03
VR06
TAPE 2
PLAY LEVEL
ADJUST
VR05
VR09
IC07
HA 12045
REC/PLAY
SENS. ADJUST
(TAPE 2)
IC05
LA 3160
IC06
LA 3160
VR10
T11
DOLBY
FILTER
T12
DOLBY
FILTER
REC/PLAY SWITCH

CASSETTE DECK MECHANICAL ADJUSTMENTS

EQUIPMENT REQUIRED

- Cassette-type Torquemeter (100g-cm/160g-cm)
- Round-nose Pliers
- Plus Screwdriver
- A Pair of Tweezers
- Paint or glue

GENERAL REMARKS

1. Before and after the mechanism adjustment, clean the tape contacting surfaces with a soft cloth soaked in alcohol.
   Trouble may occur because of oil and grease stains.
   The belts must be kept clean while the adjustments are performed.
2. If the Pinch Roller or Belt has quality deterioration such as scratches, replace it with a new one.
3. When the cassette tape is inserted into the cassette holder, the Play button can not be pressed.
   If the Mechanism is required to function under this condition, push the Cassette Lever as illustrated, so that the button is released and the mechanism functions normally.

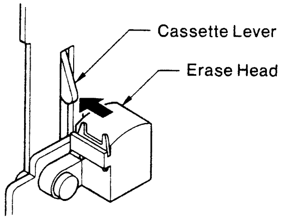

Cassette Lever
Erase Head

Fig.1

4. To prevent damage to the pinch rollers, always depress the STOP/EJECT button before switching the power off when in the recording mode (Tape 2) or playback mode (Tape 1 and 2).
   If the POWER button is released during playback on Tape 1 and the STOP/EJECT button is depressed in error, the cassette compartment lid will not open no matter how many times the STOP/EJECT button is depressed. In this case, depress the POWER button once again and then depress the PLAY button once, and depress the STOP/EJECT button.

POSITION ADJUSTMENT OF LEAF SWITCHES

This model has the following four leaf switches. Checking and adjustment for each switch shall be conducted in accordance with each adjusting item.

The unit should be set in the stop mode at each adjustment.

- * Motor Switch
- * Play Muting Switch
- * FF REW (ASF) Switch
- * REC Switch

NOTE:

The clearance of the switch contacts should be 0.5 ~ 1.0mm when the switch is not mounted on the unit. If not, adjust the clearance by carefully bending the contacts.

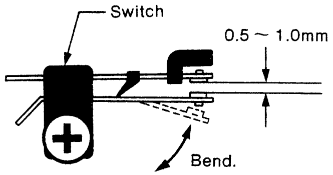

Switch
0.5 ~ 1.0mm
Bend.

Fig. 2

1. **Motor Switch**
   This switch is turned on by the shut-off switch lever when the Play button is pressed.
   The driving motor rotates the Flywheel and the rotational force transfered by the Actuate Gear makes the mechanism function.

* Check that the Motor Switch touches the shut-off Switch Lever and the clearance of the switch contacts is 0.3 ~ 0.4mm.

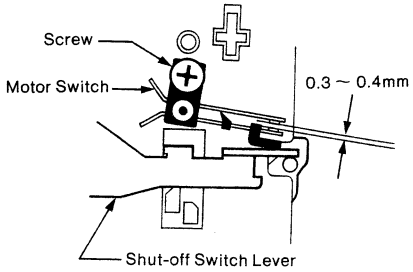

Screw
Motor Switch
0.3 ~ 0.4mm
Shut-off Switch Lever

Fig. 3

2. **Play Muting Switch**
   This switch is turned on by the Slide Base when the unit is set in the recording or playback mode and it turns off the muting circuit.

   * Check that the clearance between the Play Muting Switch and the Slide Base is 0.05mm as illustrated when the Pause button is pressed.

   * Check that the clearance of the switch contacts is 0.25mm in the recording or playback mode as illustrated.

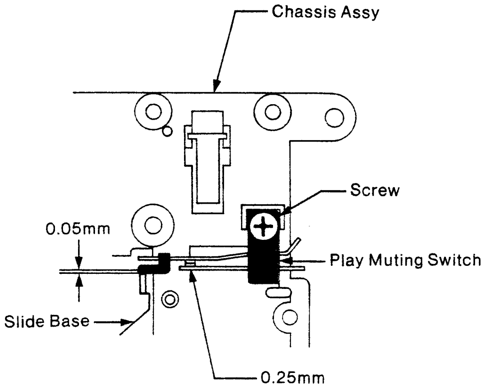


Fig. 4

3. **FF REW (ASF) Switch**
   This switch is turned on by the Cue Review Switch Lever when the unit is set in the cue or review mode by pressing the F.FWD or Rewind button in the playback mode. It also passes current into the muting circuit and solenoid. Then, the ASF circuit functions.

   * Check that the FF REW (ASF) Switch touches the Cue Review Switch Lever and the clearance of the switch contacts is 0.2 ~ 0.3mm.

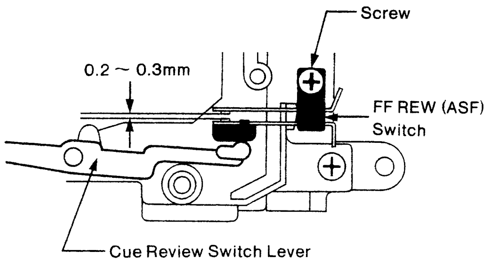


Fig. 5

4. **REC Switch**
   This switch is turned on by the Record Arm when the unit is set in the recording mode, turns on the OSC circuit.

   * Check that the clearance between the OSC Switch and the Chassis Plate is 1.0 ~ 1.5mm as illustrated.

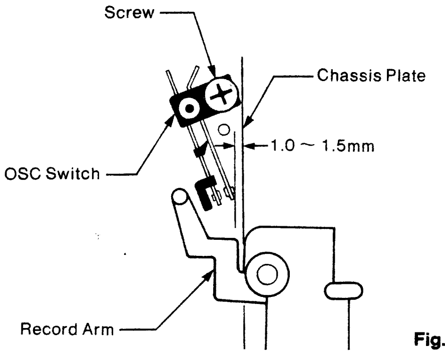


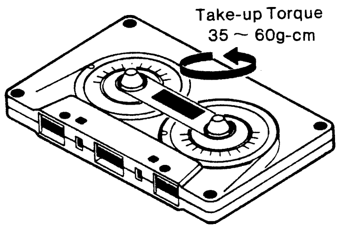
Fig. 6

Switch Adjustment
Loosen the screws fastening each switch and move the switches to the specified positions if position adjustments are required.

After the adjustment, tighten the screws and secure the switches with paint or glue.

TAKE-UP TORQUE

1. Insert a cassette-type torquemeter (100g-cm) into the cassette compartment and set the unit in the playback mode. Then, check that the take-up torque is 35 ~ 60g-cm.

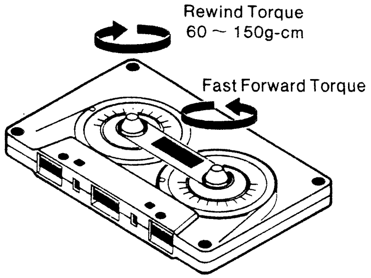


Cassette-type Torquemeter **Fig. 7**

2. If not, replace the Friction Assembly with a new one.

F.FWD AND REWIND TORQUES

1. Insert a cassette-type torquemeter (160g-cm) into the cassette compartment and measure the fast forward and rewind torques. Check that each torque is 60 ~ 150g-cm.



Cassette-type Torquemeter **Fig. 8**

2. If not, replace the Friction Assembly with a new one.

ASF PLUNGER ADJUSTMENT

ASF (Auto Search Function) detects a silent space (unrecorded portion) between each music on a music tape and automatically plays back a desired music from the start.

The unrecorded portion should last for more than approximately 4 seconds.

It may not operate correctly in the following cases:

* When the recorded sound is often interrupted as in a speech tape.
* When the silent space does not last long enough (less than 4 seconds).
* When there is an appreciable noise in the silent space between two adjacent programs.
* When the unit is placed on a television set, ASF may not operate correctly due to adverse effect of the TV signal. In this case, put the unit away from the television set.

If ASF Plunger is not correctly positioned, ASF Switch does not function correctly, F.FWD or Rewind button is released while ASF is working, or a button may not be locked.

1. Remove the Mechanism Chassis from the unit by following its removal instructions.

2. Loosen the screw fastening the Plunger and adjust the Plunger by moving it in the direction of the arrow, so that the Plunger Lever is tightly attached to the two absorption surfaces of the Plunger as illustrated.

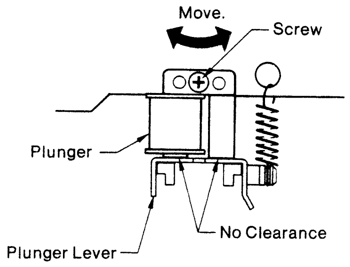


Fig. 9

3. After the adjustment, tighten the screw.
   Set the unit in the playback mode and check that ASF mechanism functions correctly as follows:
   * Check if F.FWD button can be locked by pressing it.
   * Check if Rewind button can be locked by pressing it.

4. Readjust the Plunger position if either F.FWD or Rewind button can not be locked or is soon released.

5. After the confirmation, secure the screw with paint or glue.

ASO LEVER

The service part of the ASO Lever is not cut to avoid deforming, as illustrated.
When replacing, cut 1.5 ~ 3mm of the part indicated in the illustration.

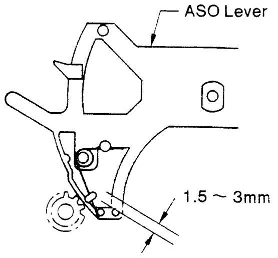


Fig. 10

NOTICE ON REASSEMBLY

When reassembling the mechanism, check if the resistance between the screw fastening the Record/Playback Head and the Lug attached to the Chassis Plate is less than 3Ω.
When the resistance is more, there will be noise during recording or playback of the cassette tape.

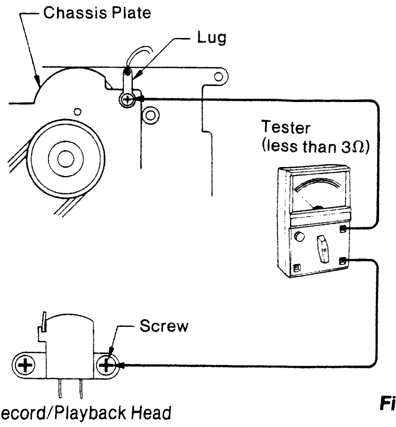
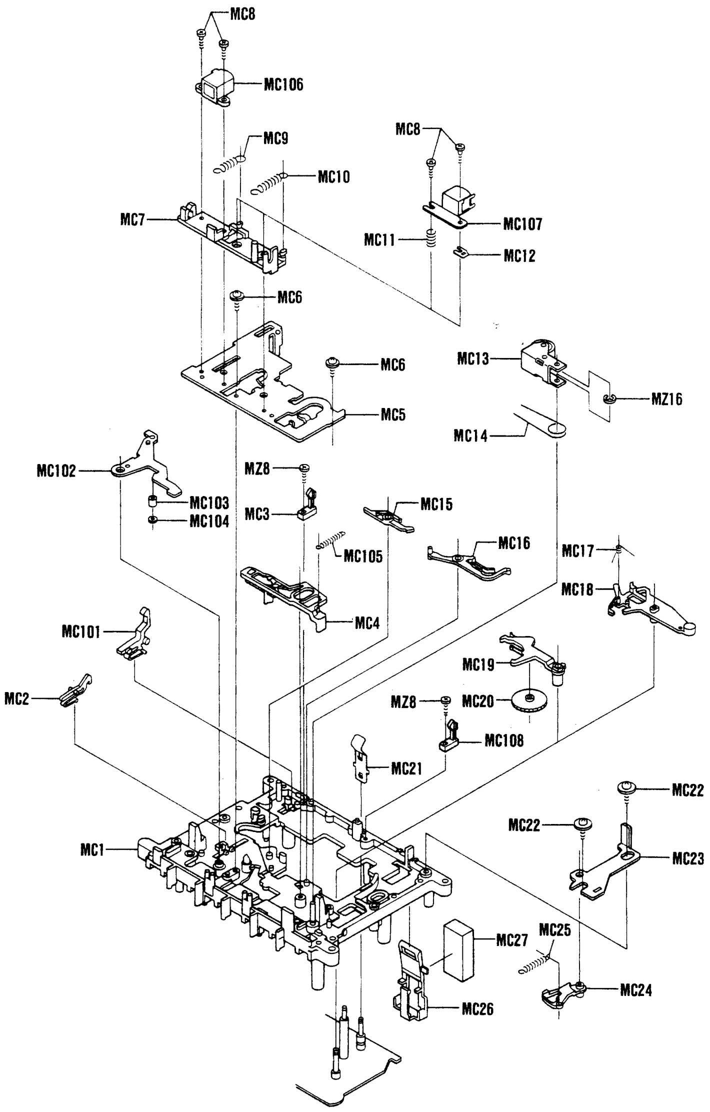


Fig. 11

MECHANISM EXPLODED VIEW

(Tape 1 Side Chassis Top)


MC8
MC106
MC9
MC10
MC8
MC107
MC7
MC11
MC12
MC6
MC6
MC13
MZ16
MC5
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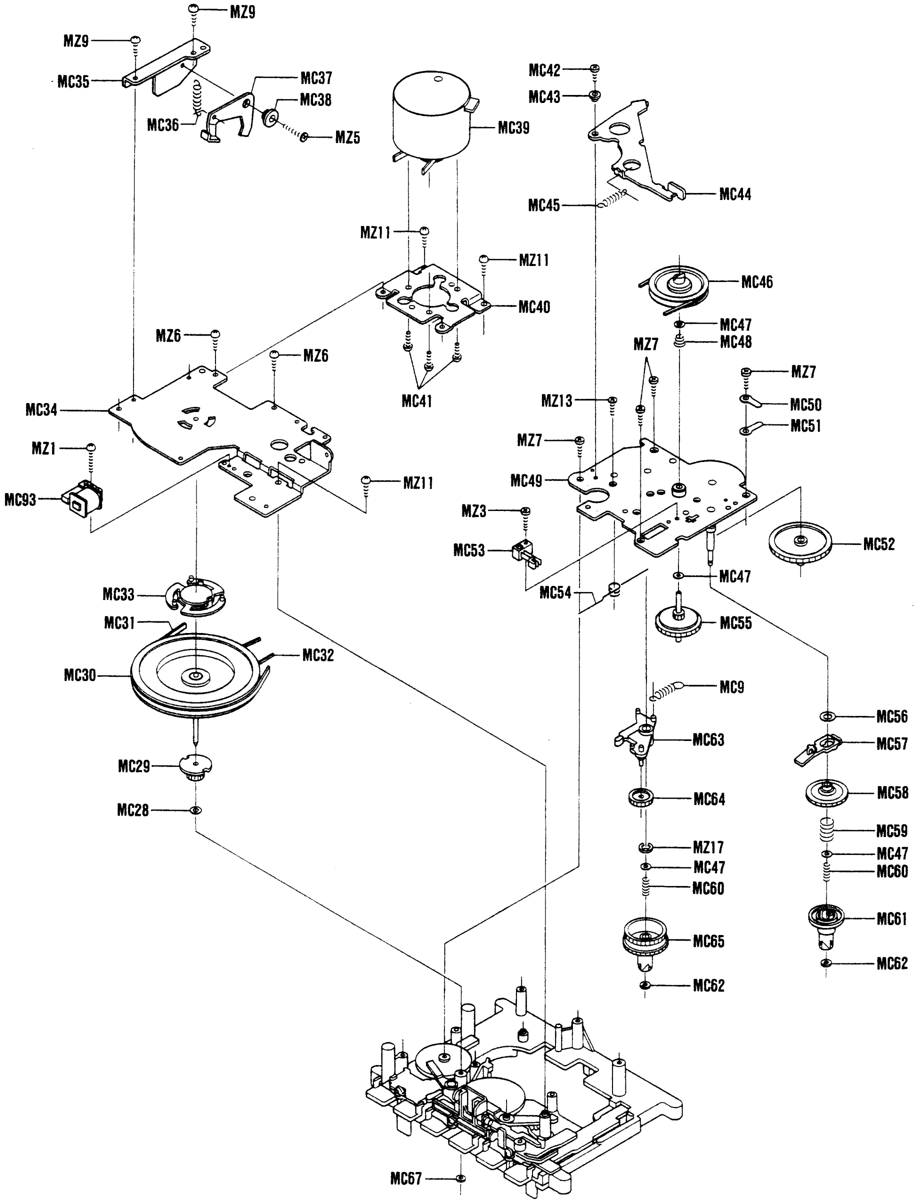
MC102
MZ8
MC103
MC104
MC3
MC15
MC105
MC16
MC17
MC18
MC4
MC101
MC19
MC2
MZ8
MC20
MC108
MC21
MC22
MC22
MC1
MC23
MC27
MC25
MC24
MC26

MECHANISM EXPLODED VIEW (Continued)

(Tape 1 Side Chassis Bottom 1)


MZ9
MZ9
MC35
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MC38
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MZ5
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MC44
MC45
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MC46
MC47
MC48
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MC41
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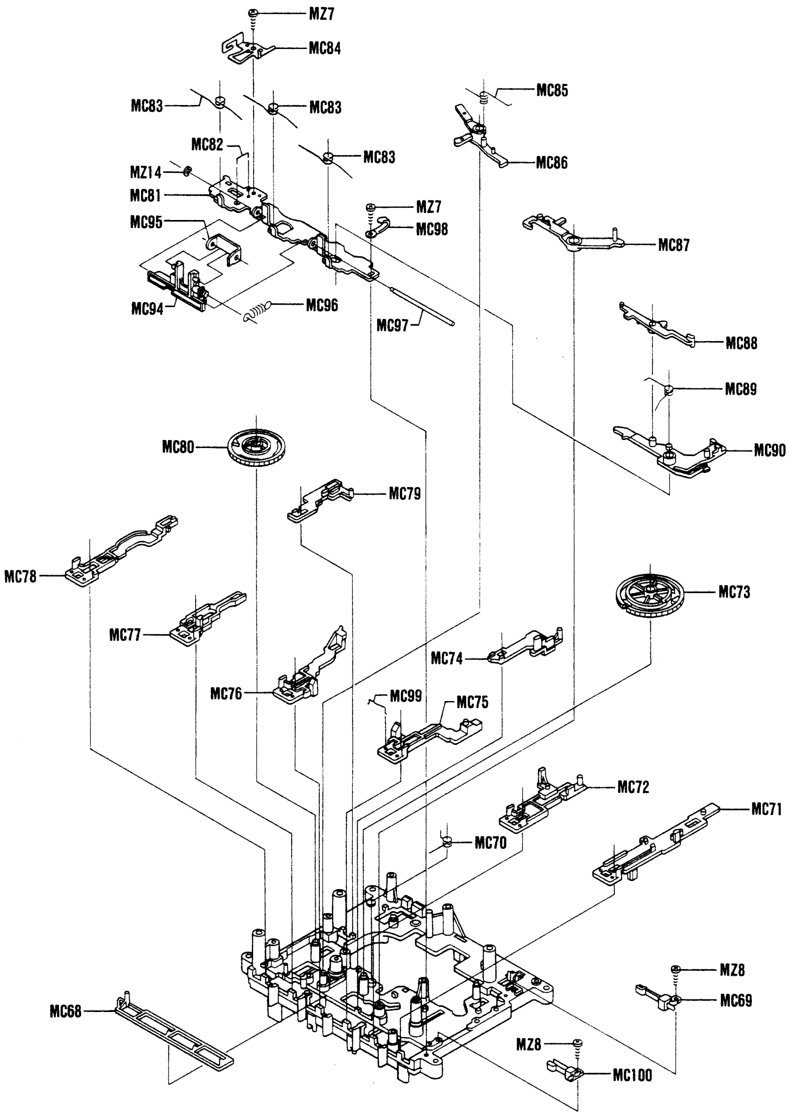
MZ7
MZ1
MC49
MZ11
MC93
MZ3
MC52
MC53
MC47
MC33
MC54
MC31
MC55
MC32
MC30
MC9
MC56
MC63
MC57
MC29
MC64
MC58
MC28
MC59
MZ17
MC47
MC47
MC60
MC60
MC61
MC65
MC62
MC62
MC67

MECHANISM EXPLODED VIEW (Continued)

(Tape 1 Side Chassis Bottom 2)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MC77
MC74
MC76
MC99
MC75
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MZ8
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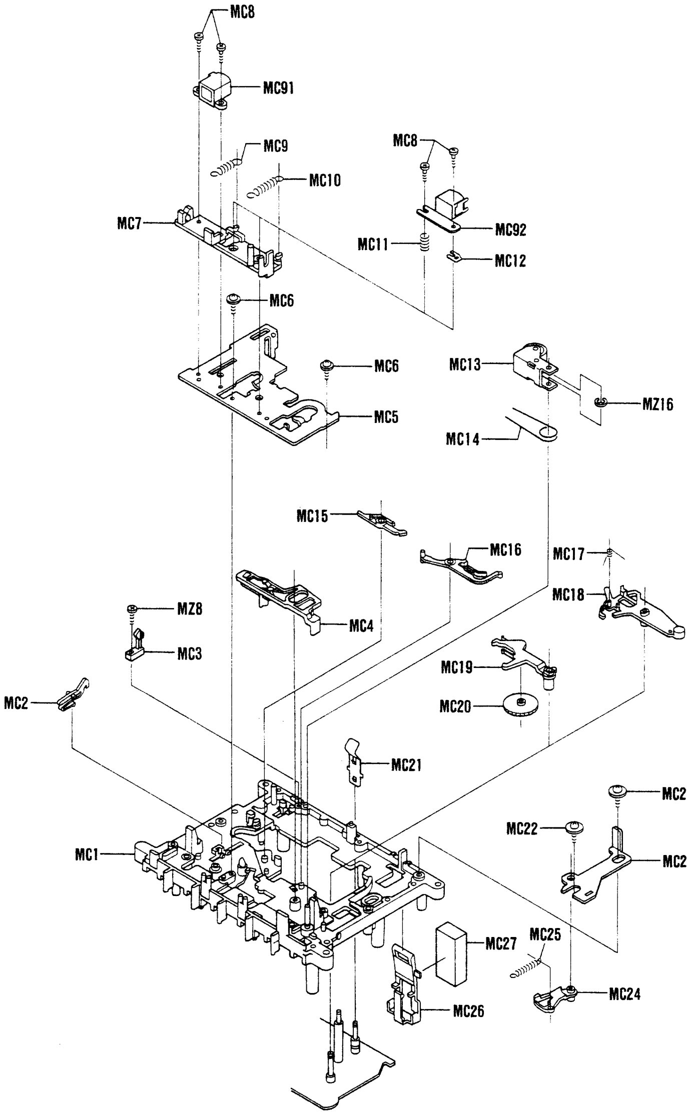
MC68
MZ8
MC100

MECHANISM EXPLODED VIEW (Continued)

(Tape 2 Side Chassis Top)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MC17
MC18
MZ8
MC4
MC3
MC19
MC2
MC20
MC21
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MC1
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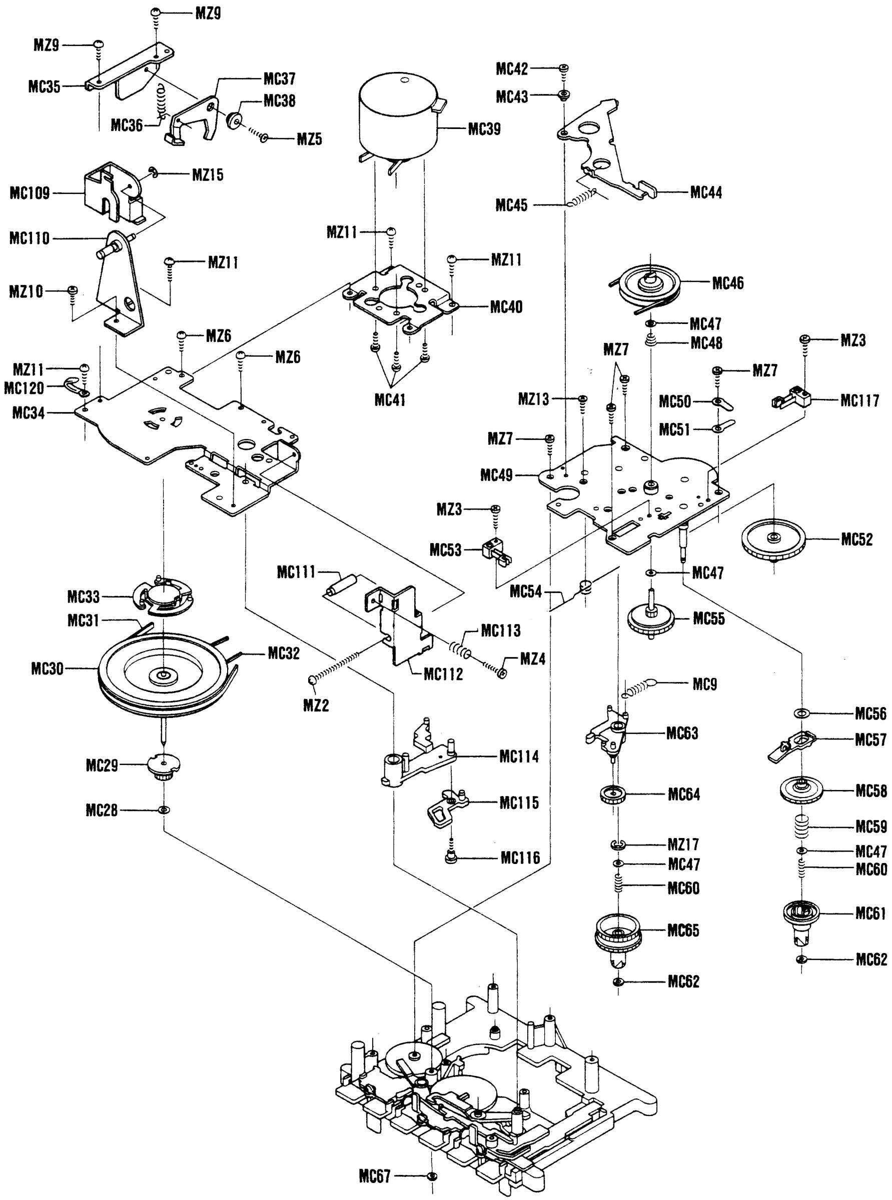
MC26

MECHANISM EXPLODED VIEW (Continued)

(Tape 2 Side Chassis Bottom 1)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MZ6
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MZ7
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MZ11
MC120
MC34
MC41
MZ13
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MZ7
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MZ3
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MC115
MC28
MC59
MZ17
MC47
MC116
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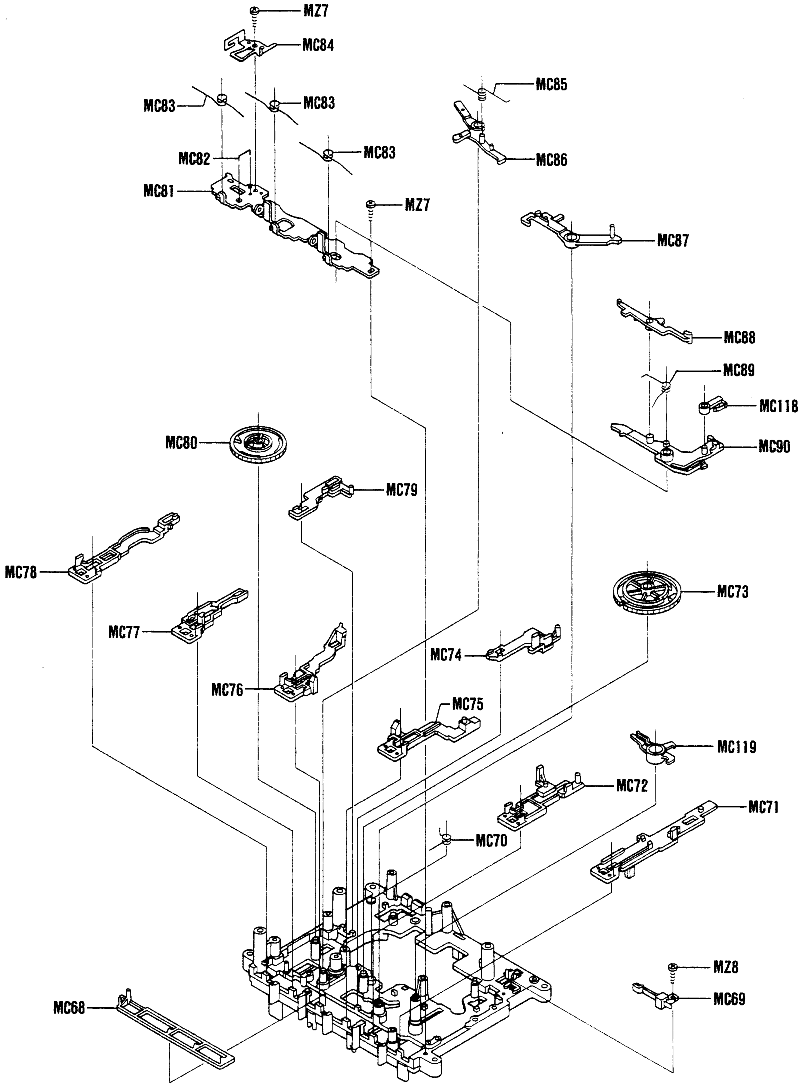
MC62
MC67

MECHANISM EXPLODED VIEW (Continued)

(Tape 2 Side Chassis Bottom 2)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MC86
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MC87
MC88
MC89
MC118
MC90
MC80
MC79
MC78
MC73
MC77
MC74
MC75
MC76
MC119
MC72
MC71
MC70
MZ8
MC68
MC69

MECHANISM PARTS LIST

TAPE 1 & 2 MECHANISM

Ref. No.	Part No.	Description	Q'ty
MC1	141 0 3119 21900	Chassis Assy	2
MC2	141 2 7419 81300	Lever Cassette	2
MC3	4 2319 75860	Leaf Switch (Auto Tape Select)	2
MC4	141 2 7419 80700	Lever Base Slide	2
MC5	141 2 7319 52801	Base Slide	2
MC6	141 2 4219 13201	Screw Washer	4
MC7	141 2 3529 35900	Speacer Head	2
MC8	141 2 4219 30300	Screw, Bind Hd., +M2.0x6	8
MC9	141 2 8519 64900	Spring Arm Gear	4
MC10	141 2 8549 18700	Spring Slide Base	2
MC11	141 2 8559 00201	Spring Head	2
MC12	141 2 3529 18102	Spacer Head	2
MC13	141 0 5419 02201	Pinch Roller Assy	2
MC14	141 2 8529 12500	Spring Pinchroller	2
MC15	141 2 7149 05600	Brake Supply Reel	2
MC16	141 2 7149 05700	Brake Take-up Reel	2
MC17	141 2 8529 13200	Spring Sensor	2
MC18	141 2 7419 80100	Lever ASO	2
MC19	141 2 7439 30100	Arm Take-up	2
MC20	141 2 5519 45300	Gear Take-up	2
MC21	141 2 8539 47901	Spring Cassette	2
MC22	141 2 4219 05400	Screw Washer	4
MC23	141 2 7319 59200	Plate Eject	2
MC24	141 2 7419 81100	Lever Stop Eject	2
MC25	141 2 8549 18500	Spring Eject	2
MC26	141 2 7419 84400	Lock Lid Cassette	2
MC27	141 2 4469 49400	Cushion	2
MC28	141 2 4539 20900	Washer	2
MC29	141 2 5519 45200	Gear Flywheel	2
MC30	141 2 5219 15000	Flywheel Capstan	2
MC31	141 2 5619 01800	Belt	2
MC32	141 2 5649 21200	Belt Wind	2
MC33	141 2 5739 06100	Thrust Flywheel	2
MC34	141 2 3519 61400	Support Flywheel	2
MC35	141 2 3519 68500	Bracket Eject	2
MC36	141 2 8519 63600	Spring Brake	2
MC37	141 2 7419 88900	Lever Eject	2
MC38	141 2 3529 16000	Spacer Lever Select	2
MC39	141 0 3799 01100	Pulley Motor Assy	2
	141 2 3799 04000	Pulley Motor	1
	4 5279 71230	Motor	1
MC40	141 2 3519 61500	Bracket Motor	2
MC41	141 2 4219 17900	Screw, Pan Hd., +M2.6x2.7	6
MC42	141 2 4219 03000	Screw	2
MC43	141 2 3529 36100	Spacer Lever	2
MC44	141 2 7419 82800	Lever Shut Off SW	2
MC45	141 2 8519 61100	Spring Slide	2
MC46	141 2 5519 45700	Pulley Friction	2
MC47	141 2 4539 27601	Washer	8
MC48	141 2 8559 04700	Spring Pulley	2
MC49	141 0 3119 21800	Plate Chassis Assy	2
MC50	141 2 4729 00200	Lug	2
MC51	141 2 4729 03700	Lug	2
MC52	141 2 5519 45600	Gear ASO	2
MC53	4 2319 74362	Leaf Switch (Motor)	2
MC54	141 2 8529 12700	Spring Arm FF	2
MC55	141 0 5519 09600	Friction Assy	2
MC56	141 2 4539 28001	Washer	2
MC57	141 2 7419 80200	Lever Rewind	2
MC58	141 2 5319 11600	Gear Reel Supply	2
MC59	141 2 8519 67900	Spring Reel	2
MC60	141 2 8559 00100	Spring Supply	4
MC61	141 2 5319 11700	Fin Reel Supply	2
MC62	141 2 4539 15700	Washer	4
MC63	141 2 7439 30000	Arm Fastwind	2
MC64	141 2 5519 45100	Gear Fastwind	2
MC65	141 2 5319 11500	Gear Reel Take-up	2
MC67	141 2 4539 17600	Washer	2
MC68	141 2 7319 53600	Plate Lock	2
MC69	4 2319 74550	Leaf Switch (Play Mute)	2
MC70	141 2 8529 12600	Spring Gear ACT Play	2
MC71	141 2 7319 53500	Rod Record	2
MC72	141 2 7319 53400	Rod Play	2
MC73	141 2 5519 45900	Gear Actuate Play	2
MC74	141 2 7319 52900	Rod Switch	2
MC75	141 2 7319 53300	Rod Rewind	2
MC76	141 2 7319 53200	Rod Fastwind	2
MC77	141 2 7319 53100	Rod Pause	2
MC78	141 2 7319 53000	Rod Stop	2
MC79	141 2 7319 54900	Rod ASO	2
MC80	141 2 5519 45800	Gear Actuate Pause	2
MC81	141 2 6139 14300	Frame Rod	2
MC82	141 2 8529 12800	Spring Pause Latch	2
MC83	141 2 8529 12401	Spring Rod FF	6
MC84	141 2 8539 46700	Spring Plate Lock	2
MC85	141 2 8529 13300	Spring Lever Pause	2
MC86	141 2 7419 80600	Lever Pause Start	2
MC87	141 2 7419 80500	Lever Play Start	2
MC88	141 2 7419 80800	Lever SW Cue Review	2
MC89	141 2 8529 14200	Spring Stop Record	2
MC90	141 2 7419 81000	Lever Stop Record	2

TAPE 1 MECHANISM

Ref. No.	Part No.	Description	Q'ty
MC91	4 2422 00231	E Head Dummy	1
MC92	4 2429 72191	Play Head	1
MC93	4 2649 70730	Plunger (ASF)	1
MC94	141 2 7419 81500	Lever Lock Button	1
MC95	141 2 7419 82700	Lever Plunger	1
MC96	141 2 8549 04400	Spring Interlock	1
MC97	141 2 5529 17000	Spindle Lever	1
MC98	141 2 4729 04000	Lug	1
MC99	141 2 8529 14300	Spring Seesaw	1
MC100	4 2319 71863	Leaf Switch (ASF)	1

TAPE 2 MECHANISM

Ref. No.	Part No.	Description	Q'ty
MC101	141 2 8419 11700	Interlock Lever	1
MC102	141 0 7419 36900	Lever Record Base Assy	1
MC103	141 2 8259 11100	Roller Record	1
MC104	141 2 4539 17500	Washer	1
MC105	141 2 8549 05500	Spring Lever Stop	1
MC106	4 2429 72201	Erase Head	1
MC107	4 2429 72190	R/P Head	1
MC108	4 2319 75860	Leaf Switch (CrO_2)	1
MC109	141 2 7419 89000	Lever Spring Record	1
MC110	141 0 3519 23300	Bracket Record Assy	1
MC111	141 2 7539 23500	Post Lever R/P SW	1
MC112	141 2 8419 13100	Lever R/P Switch	1
MC113	141 2 8519 34000	Spring Adzimuth	1
MC114	141 2 7419 81400	Arm Record	1
MC115	141 2 7419 81200	Lever Record Select	1
MC116	141 2 4219 23000	Screw	1
MC117	4 2319 74360	Leaf Switch (Record)	1
MC118	141 2 7419 80900	Lever Spring Stop Record	1
MC119	141 2 7419 80400	Lever Lock Record	1
MC120	141 2 4729 04100	Lug	1

MECHANISM PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
MZ1	101 3 1302 00811	Screw, Pan Hd., +M2.0x8	1
MZ2	101 3 1302 62511	Screw, Pan Hd., +M2.6x25	1
MZ3	101 3 1702 00811	Screw, Bind Hd., +M2.0x8	3
MZ4	101 3 1703 01211	Screw, Bind Hd., +M3.0x12	1
MZ5	101 3 1202 60618	Screw, Flat Hd., +M2.6x6	2
MZ6	103 3 1302 60511	Screw, Pan Hd. Tapping-2, +M2.6x5	4
MZ7	143 3 1702 00618	Screw, Bind Hd. Tapping-B, +M2.0x6	12
MZ8	143 3 1702 00818	Screw, Bind Hd. Tapping-B, +M2.0x8	6
MZ9	143 3 1702 60618	Screw, Bind Hd. Tapping-B, +M2.6x6	4
MZ10	143 3 1702 60611	Screw, Bind Hd. Tapping-B, +M2.6x6	1
MZ11	143 3 1702 61018	Screw, Bind Hd. Tapping-B, +M2.6x10	7
MZ13	143 3 1202 00818	Screw, Flat Hd. Tapping-B, +M2.0x8	2
MZ14	112 3 1301 20082	E Ring, M1.2	1
MZ15	112 3 1301 50082	E Ring, M1.5	1
MZ16	112 3 1302 00082	E Ring, M2.0	2
MZ17	112 3 1303 00082	E Ring, M3.0	2

TAPE 1 PARTS LIST

Ref. No.	Part No.	Description			Q'ty
C01	CD2 2 6160 0001V	Electrolytic	22μF	16V	1
PL01	4 2359 76746	Connector 4P Assy			1
PL08	4 2359 76739	Connector 7P Assy			1
	4 2359 77638	Connector 1P Assy			1
	4 2359 77638	Connector 1P Assy			1

TAPE 2 PARTS LIST

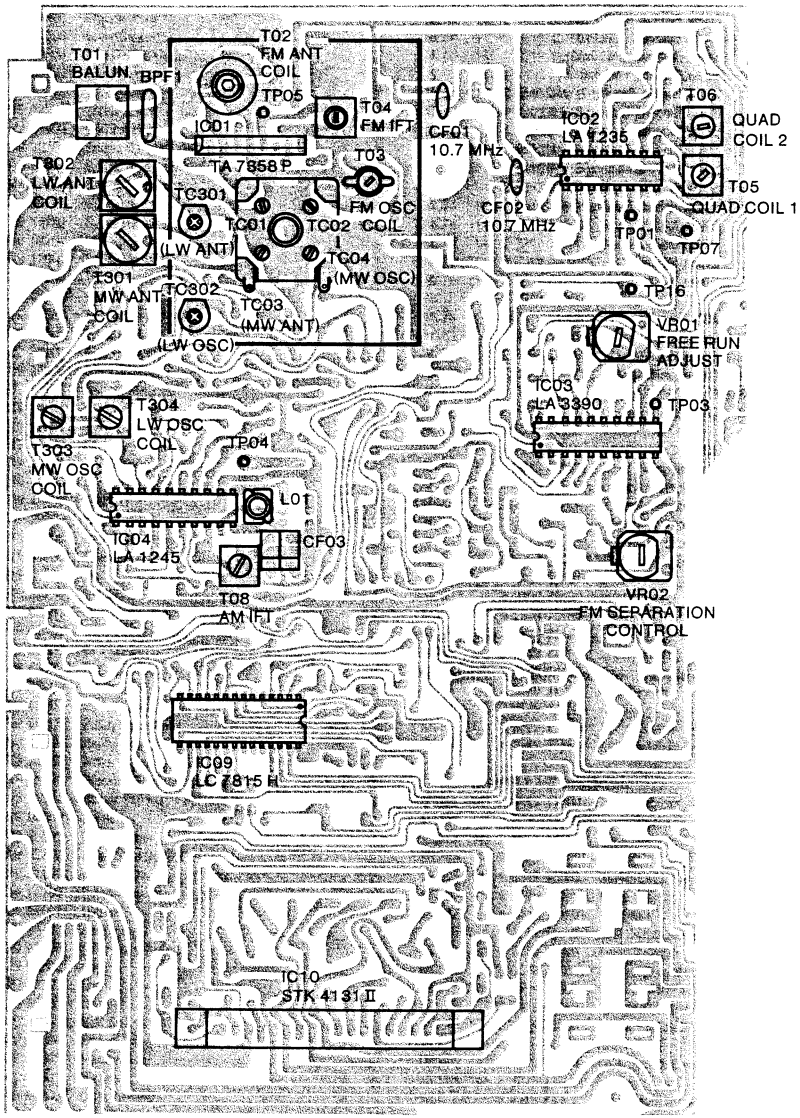
Ref. No.	Part No.	Description			Q'ty
C02	CD2 2 6160 0001V	Electrolytic	22μF	16V	1
PL02	4 2359 76608	Connector 6P Assy			1
PL03	4 2359 76788	Connector 2P Assy			1
PL09	4 2359 77326	Connector 8P Assy			1
	4 2359 77637	Connector 1P Assy			1
	4 2359 77638	Connector 1P Assy			1

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRINTED CIRCUIT BOARD ALIGNMENT POINTS

(TUNER SECTION)



P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	AF/RF P.C.B. ASSY		
PCB1	141 0 1939 07071	AF/RF P.C.B. Assy	1
	4 2262 20391	AF/RF P.C.B.	1
	4 2249 71020	Poli Varicon	1
FS01	⚠ 4 2342 00120	Fuse T 3.15A	1
FS02	⚠ 4 2342 00120	Fuse T 3.15A	1
S04	4 2319 76601	Switch Slide 12 (Record/Play)	1
T01	4 2599 70980	Balun	1
T02	4 2599 71070	FM ANT Coil	1
T03	4 2589 72660	FM OSC Coil	1
T04	4 2569 71590	FM IF Coil	1
T05	4 2569 71570	Quad-rature Coil (1)	1
T06	4 2569 71580	Quad-rature Coil (2)	1
T08	4 2569 71551	AM IFT	1
T301	4 2599 71080	MW Antenna Coil	1
T302	4 2599 71090	LW Antenna Coil	1
T303	4 2589 72590	AM OSC Coil	1
T304	4 2589 72481	LW OSC Coil	1
T10	4 2589 72350	OSC Coil 85kHz	1
T11	4 2729 70690	Dolby Filter	1
T12	4 2729 70690	Dolby Filter	1
T13	4 2552 00631	Bias Trap	1
T14	4 2552 00631	Bias Trap	1
TC301	4 2242 00280	Trimmer 20pF	1
TC302	4 2242 00280	Trimmer 20pF	1
L01	4 2539 20411	Choke Coil 470μH	1
L02	4 2552 00550	Coil 33mH	1
L03	4 2552 00550	Coil 33mH	1
L04	4 2532 00040	Choke Coil 1mH	1
L301	4 2532 00470	Choke Coil 470μH	1
CF01	4 2272 00021	Ceramic Filter 10.7MHz	1
CF02	4 2272 00021	Ceramic Filter 10.7MHz	1
CF03	4 2279 70060	Ceramic Filter	1
BPF01	4 2539 70970	Band Pass Filter	1
	4 2352 01940	Fuse Clip	4
	4 2359 76800	DIN Socket 8P (Phono)	1
	4 2359 77080	Short Socket	2
	4 2369 74770	Pin Plug 12P	1
	4 2379 70820	4P Push Terminal (Speaker)	1
	4 2372 01140	Antenna Terminal 3P	1
	111 2 6220 11100	Wire Wrap Terminal	17
	131 2 6101 30800	Plate Shield	1
	131 2 6201 35200	Plate Heat Sink	1
	4 2439 72172	Wire 4 Parallel	1
	4 2439 72175	Wire 5 Parallel	1
PL01	4 2369 71851	Connector 4P	1
PL02	4 2369 71452	Connector 6P	1
PL03	4 2362 00770	Plug 2P	1
PL04	4 2369 73970	Plug 3P	1
PL05	4 2369 73130	Connector 3P	1
PL06	4 2369 73140	Connector 4P	1
PL07	4 2369 73150	Connector 5P	1
PL08	4 2369 73410	Connector 7P	1
PL09	4 2362 00900	Plug 8P	1
PL10	4 2362 00900	Plug 8P	1
PL11	4 2369 74300	Plug 10P	1
PL12	4 2369 74310	Plug 15P	1
PL13	4 2362 00770	Plug 2P	1
VR01	4 2222 01400	Potentiometer 10kΩ-B	1
VR02	4 2222 01040	Potentiometer 20kΩ-B	1
VR03	4 2222 01010	Potentiometer 50kΩ-B	1
VR04	4 2222 01010	Potentiometer 50kΩ-B	1
VR05	4 2222 01010	Potentiometer 50kΩ-B	1
VR06	4 2222 01010	Potentiometer 50kΩ-B	1

Ref. No.	Part No.	Description				Q'ty
VR07	4 2222 00960	Potentiometer 100kΩ-B				1
VR08	4 2222 00960	Potentiometer 100kΩ-B				1
VR09	4 2222 01400	Potentiometer 10kΩ-B				1
VR10	4 2222 01400	Potentiometer 10kΩ-B				1
	4 2359 77639	Connector 1P Assy				1
	4 2439 72179	Wire 2 Parallel				1
	4 2439 72540	Wire 2 Parallel				1
	CAPACITORS					
C01	CC1 0 2500 KE01R	Ceramic	0.001μF	50V	±10%	1
C02	CC1 0 2500 KE01R	Ceramic	0.001μF	50V	±10%	1
C03	CC4 7 A500 KD01R	Ceramic	4.7pF	50V	±10%	1
C04	CC2 4 0500 JCH0C	Ceramic	24pF	50V	±5%	1
C05	CC1 5 0500 KCH0C	Ceramic	15pF	50V	±10%	1
C06	CC1 0 2500 KE01R	Ceramic	0.001μF	50V	±10%	1
C07	CC1 0 A500 CCH0C	Ceramic	1pF	50V	±0.2%	1
C08	CI1 0 3160 NG01R	Boundary	0.01μF	16V	±30%	1
C09	CI1 0 3160 NG01R	Boundary	0.01μF	16V	±30%	1
C10	CI1 0 3160 NG01R	Boundary	0.01μF	16V	±30%	1
C12	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C13	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C14	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C15	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C16	CD2 2 5500 0001V	Electrolytic	2.2μF	50V		1
C17	CC3 3 0500 JD01R	Ceramic	33pF	50V	±5%	1
C18	CD2 2 5500 0001V	Electrolytic	2.2μF	50V		1
C19	CD1 0 6250 0001V	Electrolytic	10μF	25V		1
C20	CD2 2 7160 0006V	Electrolytic	220μF	16V		1
C21	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C22	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C23	CD1 0 5500 0001V	Electrolytic	1μF	50V		1
C24	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C25	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C26	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C27	CD1 0 7160 0001V	Electrolytic	100μF	16V		1
C28	CD1 0 5500 0001V	Electrolytic	1μF	50V		1
C29	CI1 0 3160 NG01R	Boundary	0.01μF	16V	±30%	1
C30	CI1 0 3160 NG01R	Boundary	0.01μF	16V	±30%	1
C31	CC1 0 2500 KE01R	Ceramic	0.001μF	50V	±10%	1
C32	CC1 0 2500 KE01R	Ceramic	0.001μF	50V	±10%	1
C33	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C34	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C35	CI4 7 3250 MF00C	Boundary	0.047μF	25V	±20%	1
C36	CC1 0 2500 KE01R	Ceramic	0.001μF	50V	±10%	1
C37	CD2 2 5500 0001V	Electrolytic	2.2μF	50V		1
C38	CD3 3 5500 0001V	Electrolytic	3.3μF	50V		1
C39	CP1 0 2500 J003V	Polypropylen	0.001μF	50V	±5%	1
C40	CD1 0 5500 0001V	Electrolytic	1μF	50V		1
C41	CD3 3 7160 0006V	Electrolytic	330μF	16V		1
C42	CI5 6 2160 NF01R	Boundary	0.0056μF	16V	±30%	1
C43	CI5 6 2160 NF01R	Boundary	0.0056μF	16V	±30%	1
C44	CC3 9 1500 KE01R	Ceramic	390pF	50V	±10%	1
C45	CC3 9 1500 KE01R	Ceramic	390pF	50V	±10%	1
C46	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C47	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C48	CC2 2 3500 ZG00C	Ceramic	0.022μF	50V	+80,-20%	1
C49	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C50	CC1 0 3500 ZG00C	Ceramic	0.01μF	50V	+80,-20%	1
C51	CI4 7 3250 MF00C	Boundary	0.047μF	25V	±20%	1
C52	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C53	CI2 2 3160 NG00R	Boundary	0.022μF	16V	±30%	1
C54	CC2 2 3500 ZG00C	Ceramic	0.022μF	50V	+80,-20%	1
C55	CC4 7 0500 JD01R	Ceramic	47pF	50V	±5%	1
C56	CC2 7 1500 KE01R	Ceramic	270pF	50V	±10%	1

FM TUNER ALIGNMENT

FM ALIGNMENT – FUNCTION switch to FM STEREO position.
Standard test frequency 1 kHz and deviation ±40 kHz

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
Note: The FM IF circuit utilizes a non-turnable ceramic filter which establishes the IF bandpass. To insure symmetrical turning and selectivity, the IF must be aligned precisely to the center of the filter bandpass, rather than to 10.7MHz as in conventional LC circuits.				
1. S-CURVE ALIGNMENT	Connect 10.7MHz Radio IF Genescope output to TP05 and ground lead to chassis. Use 5pF capacitor in series with generator output.	Position of non-interference. Minimum Frequency.	Connect Radio IF Genescope input to TP01 and ground lead to chassis.	Adjust FM Quad. Coil 1 (T05) until the S-curve wave form becomes symmetrical and straight.
2. DETECTOR ADJUST-MENT (MINIMUM T.H.D.)	Connect FM RF Signal Generator through FM Dummy Antenna to FM Antenna terminals. Set generator output level to 60dB at 98MHz ±2kHz.	Center of 98MHz Calibration mark on dial.	Connect AC VTVM and Oscilloscope to TP01.	Adjust FM IF Trans (T04) for maximum gain and best wave form.
			Harmonic Distortion Analyzer to TP01.	Adjust FM Quad. Coil 2 (T06) for best wave form and minimum distortion.
Note: Repeat Step 1 (FM DET Coil T05) and 2 (FM DET Coil T06) until optimum alignment is reached.				
3. FRONT END ALIGNMENT		Tuning knob fully counter-clockwise.		Place center of dial pointer on "0" (zero) and secure pointer with bonding material.
4. FM (RF) TRACKING ALIGNMENT (88 MHz)	Connect FM RF Signal Generator through FM Antenna terminals. Set Generator to 88MHz. Modulate with 1kHz to provide ±40kHz deviation.	Center of 88MHz calibration mark on dial.	Connect AC VTVM Distortion Analyzer and Oscilloscope to Speaker terminal.	Adjust FM OSC Coil (T03) and FM ANT Coil (T02) for best waveform and minimum distortion.
5. (108MHz)	Change generator setting to 108MHz.	Center of 108MHz calibration mark on dial.	Same as above.	Adjust FM OSC Trimmer (TC02) and FM ANT Trimmer (TC01) for best wave form and deflection.
Note: Repeat Items 4 and 5, and confirm that Tracking Error is minimized and best sensitivity is obtained at each frequency point. Then, set generator to 98MHz and confirm that the pointer is correctly set on the dial plate.				
6. PLL IC FREE RUN FREQUENCY ADJUST-MENT (19kHz)	Set generator to 98MHz ±2kHz. Adjust ATT output for 60dB.	Center of 98MHz calibration mark on dial.	Connect Frequency Counter to TP03 through Resistor (100kΩ) and ground lead to chassis.	Adjust VR01 in multiplex circuit to obtain 19kHz ±50Hz on Frequency Counter.
7. FM STEREO SIGNAL SEPARATION CONTROL	Connect FM Stereo SG to FM Antenna terminals. 19kHz signal ON. Main channel, sub channel signal ON. Apply 1000Hz signal from LEFT channel.		Scope and AC-VTVM to RIGHT Speaker Terminal.	Adjust VR02 for minimum output.
	Same as above for RIGHT channel.		Scope and AC-VTVM to LEFT Speaker Terminal.	

Use a screwdriver with plastic grip for all adjustments.

AM TUNER ALIGNMENT

AM ALIGNMENT – FUNCTION switch to MW or LW position.
Standard test frequency 400 Hz and Modulation 30 % at AM

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. IF ALIGNMENT	Connect 455kHz Radio IF Genescope output to ANT. terminal of Varicon and ground lead to chassis.	Position of non-interference. Minimum Frequency.	Connect Radio IF Genescope input to TP04 and ground lead to chassis.	Adjust AM IF Trans (T08) for maximum gain and best symmetry. Keep signal low enough for noise on response.
2. MW (RF) TRACKING ALIGNMENT (600kHz)	Connect standard Loop Antenna to out put terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop Antenna (TAC-M21). Generator Setting to 600kHz.	Center of 600kHz calibration mark on dial.	Connect AC VTVM and Oscilloscope to TP04 and ground lead to chassis.	Adjust MW OSC Coil (T303) and MW ANT Coil (T301) for maximum gain output.
3. (1400kHz)	Change generator setting to 1400kHz.	Center of 1400kHz calibration mark on dial.	Same as above.	Adjust MW OSC Trimmer (TC04) and MW ANT Trimmer (TC03) for maximum deflection.
Note: Repeat the adjustments in Items 2 and 3. Then, confirm that there is no traking error.				
4. LW (RF) TRACKING ALIGNMENT (160kHz)	Connect standard Loop Antenna to out put terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop Antenna (TAC-M21). Generator Setting to 160kHz.	Center of 160kHz calibration mark on dial.	Connect AC VTVM and Oscilloscope to TP04 and ground lead to chassis.	Adjust LW OSC Coil (T304) and LW ANT Coil (T302) for maximum gain output.
5. (330kHz)	Change generator setting to 330kHz.	Center of 330kHz calibration mark on dial.	Same as above.	Adjust LW OSC Trimmer (TC302) and LW ANT Trimmer (TC301) for maximum deflection.
Note: Repeat the adjustments in Items 4 and 5. Then, confirm that there is no traking error.				

Use a screwdriver with plastic grip for all adjustments.

CAUTION: This precision high-fidelity instrument should be serviced only by qualified personnel, trained in the repair of transistor equipment and printed circuitry.

P.C.BOARD PARTS LIST

AF/RF P.C.B. ASSY

Ref. No.	Part No.	Description	Q'ty
PCB1	141 0 1939 07071	AF/RF P.C.B. Assy	1
	4 2262 20391	AF/RF P.C.B.	1
	4 2249 71020	Poli Varicon	1
FS01	⚠ 4 2342 00120	Fuse T 3.15A	1
FS02	⚠ 4 2342 00120	Fuse T 3.15A	1
S04	4 2319 76601	Switch Slide 12 (Record/Play)	1
T01	4 2599 70980	Balun	1
T02	4 2599 71070	FM ANT Coil	1
T03	4 2589 72660	FM OSC Coil	1
T04	4 2569 71590	FM IF Coil	1
T05	4 2569 71570	Quad-rature Coil (1)	1
T06	4 2569 71580	Quad-rature Coil (2)	1
T08	4 2569 71551	AM IFT	1
T301	4 2599 71080	MW Antenna Coil	1
T302	4 2599 71090	LW Antenna Coil	1
T303	4 2589 72590	AM OSC Coil	1
T304	4 2589 72481	LW OSC Coil	1
T10	4 2589 72350	OSC Coil 85kHz	1
T11	4 2729 70690	Dolby Filter	1
T12	4 2729 70690	Dolby Filter	1
T13	4 2552 00631	Bias Trap	1
T14	4 2552 00631	Bias Trap	1
TC301	4 2242 00280	Trimmer 20pF	1
TC302	4 2242 00280	Trimmer 20pF	1
L01	4 2539 20411	Choke Coil 470µH	1
L02	4 2552 00550	Coil 33mH	1
L03	4 2552 00550	Coil 33mH	1
L04	4 2532 00040	Choke Coil 1mH	1
L301	4 2532 00470	Choke Coil 470µH	1
CF01	4 2272 00021	Ceramic Filter 10.7MHz	1
CF02	4 2272 00021	Ceramic Filter 10.7MHz	1
CF03	4 2279 70060	Ceramic Filter	1
BPF01	4 2539 70970	Band Pass Filter	1
	4 2352 01940	Fuse Clip	4
	4 2359 76800	DIN Socket 8P (Phono)	1
	4 2359 77080	Short Socket	2
	4 2369 74770	Pin Plug 12P	1
	4 2379 70820	4P Push Terminal (Speaker)	1
	4 2372 01140	Antenna Terminal 3P	1
	111 2 6220 11100	Wire Wrap Terminal	17
	131 2 6101 30800	Plate Shield	1
	131 2 6201 35200	Plate Heat Sink	1
	4 2439 72172	Wire 4 Parallel	1
	4 2439 72175	Wire 5 Parallel	1
PL01	4 2369 71851	Connector 4P	1
PL02	4 2369 71452	Connector 6P	1
PL03	4 2362 00770	Plug 2P	1
PL04	4 2369 73970	Plug 3P	1
PL05	4 2369 73130	Connector 3P	1
PL06	4 2369 73140	Connector 4P	1
PL07	4 2369 73150	Connector 5P	1
PL08	4 2369 73410	Connector 7P	1
PL09	4 2362 00900	Plug 8P	1
PL10	4 2362 00900	Plug 8P	1
PL11	4 2369 74300	Plug 10P	1
PL12	4 2369 74310	Plug 15P	1
PL13	4 2362 00770	Plug 2P	1
VR01	4 2222 01400	Potentiometer 10kΩ-B	1
VR02	4 2222 01040	Potentiometer 20kΩ-B	1
VR03	4 2222 01010	Potentiometer 50kΩ-B	1
VR04	4 2222 01010	Potentiometer 50kΩ-B	1
VR05	4 2222 01010	Potentiometer 50kΩ-B	1
VR06	4 2222 01010	Potentiometer 50kΩ-B	1
VR07	4 2222 00960	Potentiometer 100kΩ-B	1
VR08	4 2222 00960	Potentiometer 100kΩ-B	1
VR09	4 2222 01400	Potentiometer 10kΩ-B	1
VR10	4 2222 01400	Potentiometer 10kΩ-B	1
	4 2359 77639	Connector 1P Assy	1
	4 2439 72179	Wire 2 Parallel	1
	4 2439 72540	Wire 2 Parallel	1

CAPACITORS

Ref. No.	Part No.	Description				Q'ty
C01	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C02	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C03	CC4 7 A500 KD01R	Ceramic	4.7pF	50V	±10%	1
C04	CC2 4 0500 JCH0C	Ceramic	24pF	50V	±5%	1
C05	CC1 5 0500 KCH0C	Ceramic	15pF	50V	±10%	1
C06	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C07	CC1 0 A500 CCH0C	Ceramic	1pF	50V	±0.2%	1
C08	CI1 0 3160 NG01R	Boundary	0.01µF	16V	±30%	1
C09	CI1 0 3160 NG01R	Boundary	0.01µF	16V	±30%	1
C10	CI1 0 3160 NG01R	Boundary	0.01µF	16V	±30%	1
C12	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C13	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C14	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C15	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C16	CD2 2 5500 0001V	Electrolytic	2.2µF	50V		1
C17	CC3 3 0500 JD01R	Ceramic	33pF	50V	±5%	1
C18	CD2 2 5500 0001V	Electrolytic	2.2µF	50V		1
C19	CD1 0 6250 0001V	Electrolytic	10µF	25V		1
C20	CD2 2 7160 0006V	Electrolytic	220µF	16V		1
C21	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C22	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C23	CD1 0 5500 0001V	Electrolytic	1µF	50V		1
C24	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C25	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C26	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C27	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
C28	CD1 0 5500 0001V	Electrolytic	1µF	50V		1
C29	CI1 0 3160 NG01R	Boundary	0.01µF	16V	±30%	1
C30	CI1 0 3160 NG01R	Boundary	0.01µF	16V	±30%	1
C31	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C32	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C33	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C34	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C35	CI4 7 3250 MF00C	Boundary	0.047µF	25V	±20%	1
C36	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C37	CD2 2 5500 0001V	Electrolytic	2.2µF	50V		1
C38	CD3 3 5500 0001V	Electrolytic	3.3µF	50V		1
C39	CP1 0 2500 J003V	Polypropylen	0.001µF	50V	±5%	1
C40	CD1 0 5500 0001V	Electrolytic	1µF	50V		1
C41	CD3 3 7160 0006V	Electrolytic	330µF	16V		1
C42	CI5 6 2160 NF01R	Boundary	0.0056µF	16V	±30%	1
C43	CI5 6 2160 NF01R	Boundary	0.0056µF	16V	±30%	1
C44	CC3 9 1500 KE01R	Ceramic	390pF	50V	±10%	1
C45	CC3 9 1500 KE01R	Ceramic	390pF	50V	±10%	1
C46	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C47	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C48	CC2 2 3500 ZG00C	Ceramic	0.022µF	50V	+80,-20%	1
C49	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C50	CC1 0 3500 ZG00C	Ceramic	0.01µF	50V	+80,-20%	1
C51	CI4 7 3250 MF00C	Boundary	0.047µF	25V	±20%	1
C52	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C53	CI2 2 3160 NG00R	Boundary	0.022µF	16V	±30%	1
C54	CC2 2 3500 ZG00C	Ceramic	0.022µF	50V	+80,-20%	1
C55	CC4 7 0500 JD01R	Ceramic	47pF	50V	±5%	1
C56	CC2 7 1500 KE01R	Ceramic	270pF	50V	±10%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
C57	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C58	CI1 0 3160 NG01R	Boundary	0.01µF	16V	±30%	1
C59	CI4 7 3250 MF00C	Boundary	0.047µF	25V	±20%	1
C60	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
C61	CC4 7 3500 ZG00C	Ceramic	0.047µF	50V	+80,-20%	1
C62	CI4 7 3250 MF00C	Boundary	0.047µF	25V	±20%	1
C63	CD3 3 5160 0001V	Electrolytic	3.3µF	16V		1
C64	CD4 7 5160 0001V	Electrolytic	4.7µF	16V		1
C65	CI4 7 2160 NF01R	Boundary	0.0047µF	16V	±30%	1
C66	CD1 0 4500 0001V	Electrolytic	0.1µF	50V		1
C67	CI1 0 3160 NG01R	Boundary	0.01µF	16V	±30%	1
C68	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
C69	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C70	CC1 0 2500 KE01R	Ceramic	0.001µF	50V	±10%	1
C71	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C72	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C73	CD1 0 763A 0001V	Electrolytic	100µF	6.3V		1
C74	CD1 0 763A 0001V	Electrolytic	100µF	6.3V		1
C75	CM2 2 3500 K00SV	Mylar	0.022µF	50V	±10%	1
C76	CM2 2 3500 K00SV	Mylar	0.022µF	50V	±10%	1
C77	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C78	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C79	CI6 8 2160 NF01R	Boundary	0.0068µF	16V	±30%	1
C80	CI6 8 2160 NF01R	Boundary	0.0068µF	16V	±30%	1
C81	CM1 5 3500 K00SV	Mylar	0.015µF	50V	±10%	1
C82	CM1 5 3500 K00SV	Mylar	0.015µF	50V	±10%	1
C83	CC8 2 1500 KE01R	Ceramic	820pF	50V	±10%	1
C84	CC8 2 1500 KE01R	Ceramic	820pF	50V	±10%	1
C85	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C86	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C87	CD1 0 763A 0001V	Electrolytic	100µF	6.3V		1
C88	CD1 0 763A 0001V	Electrolytic	100µF	6.3V		1
C89	CM2 2 3500 K00SV	Mylar	0.022µF	50V	±10%	1
C90	CM2 2 3500 K00SV	Mylar	0.022µF	50V	±10%	1
C91	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C92	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C93	CM1 5 3500 K00SV	Mylar	0.015µF	50V	±10%	1
C94	CM1 5 3500 K00SV	Mylar	0.015µF	50V	±10%	1
C95	CC2 2 1500 KE00R	Ceramic	220pF	50V	±10%	1
C96	CC2 2 1500 KE00R	Ceramic	220pF	50V	±10%	1
C97	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
C99	CP1 0 3101 J003V	Polypropylen	0.01µF	100V	±5%	1
C100	CM1 0 3500 K00SV	Mylar	0.01µF	50V	±10%	1
C101	CI3 3 2500 NF00R	Boundary	0.0033µF	50V	±30%	1
C102	CI3 3 2500 NF00R	Boundary	0.0033µF	50V	±30%	1
C103	CM1 0 3500 K00SV	Mylar	0.01µF	50V	±10%	1
C104	CD1 0 6250 0001V	Electrolytic	10µF	25V		1
C105	CD4 7 5500 0001V	Electrolytic	4.7µF	50V		1
C106	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
C107	CD1 0 5500 0001V	Electrolytic	1µF	50V		1
C108	CD1 0 5500 0001V	Electrolytic	1µF	50V		1
C109	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C110	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C111	CM3 9 2500 K00SV	Mylar	0.0039µF	50V	±10%	1
C112	CM3 9 2500 K00SV	Mylar	0.0039µF	50V	±10%	1
C113	CM1 0 2500 K00SV	Mylar	0.001µF	50V	±10%	1
C114	CM1 0 2500 K00SV	Mylar	0.001µF	50V	±10%	1
C115	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C116	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C117	CD2 2 7100 0001V	Electrolytic	220µF	10V		1
C118	CD2 2 6160 0001V	Electrolytic	22µF	16V		1
C119	CD4 7 5160 0001V	Electrolytic	4.7µF	16V		1
C120	CD4 7 5160 0001V	Electrolytic	4.7µF	16V		1
C121	CM4 7 2500 K00SV	Mylar	0.0047µF	50V	±10%	1
C122	CM4 7 2500 K00SV	Mylar	0.0047µF	50V	±10%	1
C123	CM3 3 3500 K00SV	Mylar	0.033µF	50V	±10%	1
C124	CM3 3 3500 K00SV	Mylar	0.033µF	50V	±10%	1
C125	CM2 7 4500 J00TV	Mylar	0.27µF	50V	±5%	1
C126	CM2 7 4500 J00TV	Mylar	0.27µF	50V	±5%	1
C127	CM8 2 4500 J00TV	Mylar	0.82µF	50V	±5%	1
C128	CM8 2 4500 J00TV	Mylar	0.82µF	50V	±5%	1
C129	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C130	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C131	CM1 8 3500 K00SV	Mylar	0.018µF	50V	±10%	1
C132	CM1 8 3500 K00SV	Mylar	0.018µF	50V	±10%	1
C133	CD1 0 5500 0001V	Electrolytic	1µF	50V		1
C134	CD1 0 5500 0001V	Electrolytic	1µF	50V		1
C135	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C136	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C137	CD4 7 5250 0001V	Electrolytic	4.7µF	25V		1
C138	CD4 7 5250 0001V	Electrolytic	4.7µF	25V		1
C139	CD2 2 6100 0001V	Electrolytic	22µF	10V		1
C140	CD2 2 6100 0001V	Electrolytic	22µF	10V		1
C141	CD2 2 6100 0001V	Electrolytic	22µF	10V		1
C142	CD2 2 6100 0001V	Electrolytic	22µF	10V		1
C143	CM2 7 2500 K00SV	Mylar	0.0027µF	50V	±10%	1
C144	CM2 7 2500 K00SV	Mylar	0.0027µF	50V	±10%	1
C145	CM2 7 2500 K00SV	Mylar	0.0027µF	50V	±10%	1
C146	CM2 7 2500 K00SV	Mylar	0.0027µF	50V	±10%	1
C147	CD2 2 4500 0001V	Electrolytic	0.22µF	50V		1
C148	CD2 2 4500 0001V	Electrolytic	0.22µF	50V		1
C149	CM3 9 2500 K00SV	Mylar	0.0039µF	50V	±10%	1
C150	CM3 9 2500 K00SV	Mylar	0.0039µF	50V	±10%	1
C151	CM2 7 2500 K00SV	Mylar	0.0027µF	50V	±10%	1
C152	CM2 7 2500 K00SV	Mylar	0.0027µF	50V	±10%	1
C153	CM2 7 2500 K00SV	Mylar	0.0027µF	50V	±10%	1
C154	CM2 7 2500 K00SV	Mylar	0.0027µF	50V	±10%	1
C155	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
C156	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
C165	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
C166	CD4 7 4500 0001V	Electrolytic	0.47µF	50V		1
C169	CD3 3 4500 0001V	Electrolytic	0.33µF	50V		1
C170	CD1 0 6250 0001V	Electrolytic	10µF	25V		1
C171	CC8 2 1500 KE01R	Ceramic	820pF	50V	±10%	1
C172	CC8 2 1500 KE01R	Ceramic	820pF	50V	±10%	1
C173	CD2 2 5500 0001V	Electrolytic	2.2µF	50V		1
C174	CD2 2 5500 0001V	Electrolytic	2.2µF	50V		1
C175	CD3 3 6160 0001V	Electrolytic	33µF	16V		1
C176	CD3 3 6160 0001V	Electrolytic	33µF	16V		1
C177	CD4 7 6350 0001V	Electrolytic	47µF	35V		1
C178	CD4 7 6350 0001V	Electrolytic	47µF	35V		1
C179	CD1 0 7350 0006V	Electrolytic	100µF	35V		1
C180	CD1 0 6350 0001V	Electrolytic	10µF	35V		1
C181	CD1 0 6350 0001V	Electrolytic	10µF	35V		1
C182	CD1 0 7350 0006V	Electrolytic	100µF	35V		1
C183	CM1 0 4500 J00TV	Mylar	0.1µF	50V	±5%	1
C184	CM1 0 4500 J00TV	Mylar	0.1µF	50V	±5%	1
C185	CD4 7 6160 0001V	Electrolytic	47µF	16V		1
C186	CD3 3 7160 0001V	Electrolytic	330µF	16V		1
C187	4 2239 71280	Electrolytic	1000µF	16V		1
C188	4 2239 71280	Electrolytic	1000µF	16V		1
C189	CD1 0 7160 0006V	Electrolytic	100µF	16V		1
C190	CD1 0 6160 0001V	Electrolytic	10µF	16V		1
C191	CD4 7 7250 0006V	Electrolytic	470µF	25V		1
C192	CD4 7 7250 0006V	Electrolytic	470µF	25V		1
C193	CD1 0 7250 0001V	Electrolytic	100µF	25V		1
C194	CD1 0 7250 0001V	Electrolytic	100µF	25V		1
C195	CD4 7 7160 0001V	Electrolytic	470µF	16V		1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
C57	CC1 0 2500 KE01R	Ceramic 0.001µF 50V ±10%	1
C58	CI1 0 3160 NG01R	Boundary 0.01µF 16V ±30%	1
C59	CI4 7 3250 MF00C	Boundary 0.047µF 25V ±20%	1
C60	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C61	CC4 7 3500 ZG00C	Ceramic 0.047µF 50V +80,-20%	1
C62	CI4 7 3250 MF00C	Boundary 0.047µF 25V ±20%	1
C63	CD3 3 5160 0001V	Electrolytic 3.3µF 16V	1
C64	CD4 7 5160 0001V	Electrolytic 4.7µF 16V	1
C65	CI4 7 2160 NF01R	Boundary 0.0047µF 16V ±30%	1
C66	CD1 0 4500 0001V	Electrolytic 0.1µF 50V	1
C67	CI1 0 3160 NG01R	Boundary 0.01µF 16V ±30%	1
C68	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C69	CC1 0 2500 KE01R	Ceramic 0.001µF 50V ±10%	1
C70	CC1 0 2500 KE01R	Ceramic 0.001µF 50V ±10%	1
C71	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C72	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C73	CD1 0 763A 0001V	Electrolytic 100µF 6.3V	1
C74	CD1 0 763A 0001V	Electrolytic 100µF 6.3V	1
C75	CM2 2 3500 K00SV	Mylar 0.022µF 50V ±10%	1
C76	CM2 2 3500 K00SV	Mylar 0.022µF 50V ±10%	1
C77	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C78	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C79	CI6 8 2160 NF01R	Boundary 0.0068µF 16V ±30%	1
C80	CI6 8 2160 NF01R	Boundary 0.0068µF 16V ±30%	1
C81	CM1 5 3500 K00SV	Mylar 0.015µF 50V ±10%	1
C82	CM1 5 3500 K00SV	Mylar 0.015µF 50V ±10%	1
C83	CC8 2 1500 KE01R	Ceramic 820pF 50V ±10%	1
C84	CC8 2 1500 KE01R	Ceramic 820pF 50V ±10%	1
C85	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C86	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C87	CD1 0 763A 0001V	Electrolytic 100µF 6.3V	1
C88	CD1 0 763A 0001V	Electrolytic 100µF 6.3V	1
C89	CM2 2 3500 K00SV	Mylar 0.022µF 50V ±10%	1
C90	CM2 2 3500 K00SV	Mylar 0.022µF 50V ±10%	1
C91	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C92	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C93	CM1 5 3500 K00SV	Mylar 0.015µF 50V ±10%	1
C94	CM1 5 3500 K00SV	Mylar 0.015µF 50V ±10%	1
C95	CC2 2 1500 KE00R	Ceramic 220pF 50V ±10%	1
C96	CC2 2 1500 KE00R	Ceramic 220pF 50V ±10%	1
C97	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C99	CP1 0 3101 J003V	Polypropylen 0.01µF 100V ±5%	1
C100	CM1 0 3500 K00SV	Mylar 0.01µF 50V ±10%	1
C101	CI3 3 2500 NF00R	Boundary 0.0033µF 50V ±30%	1
C102	CI3 3 2500 NF00R	Boundary 0.0033µF 50V ±30%	1
C103	CM1 0 3500 K00SV	Mylar 0.01µF 50V ±10%	1
C104	CD1 0 6250 0001V	Electrolytic 10µF 25V	1
C105	CD4 7 5500 0001V	Electrolytic 4.7µF 50V	1
C106	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C107	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C108	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C109	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C110	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C111	CM3 9 2500 K00SV	Mylar 0.0039µF 50V ±10%	1
C112	CM3 9 2500 K00SV	Mylar 0.0039µF 50V ±10%	1
C113	CM1 0 2500 K00SV	Mylar 0.001µF 50V ±10%	1
C114	CM1 0 2500 K00SV	Mylar 0.001µF 50V ±10%	1
C115	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C116	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C117	CD2 2 7100 0001V	Electrolytic 220µF 10V	1
C118	CD2 2 6160 0001V	Electrolytic 22µF 16V	1
C119	CD4 7 5160 0001V	Electrolytic 4.7µF 16V	1
C120	CD4 7 5160 0001V	Electrolytic 4.7µF 16V	1
C121	CM4 7 2500 K00SV	Mylar 0.0047µF 50V ±10%	1
C122	CM4 7 2500 K00SV	Mylar 0.0047µF 50V ±10%	1
C123	CM3 3 3500 K00SV	Mylar 0.033µF 50V ±10%	1
C124	CM3 3 3500 K00SV	Mylar 0.033µF 50V ±10%	1
C125	CM2 7 4500 J00TV	Mylar 0.27µF 50V ±5%	1
C126	CM2 7 4500 J00TV	Mylar 0.27µF 50V ±5%	1
C127	CM8 2 4500 J00TV	Mylar 0.82µF 50V ±5%	1
C128	CM8 2 4500 J00TV	Mylar 0.82µF 50V ±5%	1
C129	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C130	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C131	CM1 8 3500 K00SV	Mylar 0.018µF 50V ±10%	1
C132	CM1 8 3500 K00SV	Mylar 0.018µF 50V ±10%	1
C133	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C134	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C135	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C136	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C137	CD4 7 5250 0001V	Electrolytic 4.7µF 25V	1
C138	CD4 7 5250 0001V	Electrolytic 4.7µF 25V	1
C139	CD2 2 6100 0001V	Electrolytic 22µF 10V	1
C140	CD2 2 6100 0001V	Electrolytic 22µF 10V	1
C141	CD2 2 6100 0001V	Electrolytic 22µF 10V	1
C142	CD2 2 6100 0001V	Electrolytic 22µF 10V	1
C143	CM2 7 2500 K00SV	Mylar 0.0027µF 50V ±10%	1
C144	CM2 7 2500 K00SV	Mylar 0.0027µF 50V ±10%	1
C145	CM2 7 2500 K00SV	Mylar 0.0027µF 50V ±10%	1
C146	CM2 7 2500 K00SV	Mylar 0.0027µF 50V ±10%	1
C147	CD2 2 4500 0001V	Electrolytic 0.22µF 50V	1
C148	CD2 2 4500 0001V	Electrolytic 0.22µF 50V	1
C149	CM3 9 2500 K00SV	Mylar 0.0039µF 50V ±10%	1
C150	CM3 9 2500 K00SV	Mylar 0.0039µF 50V ±10%	1
C151	CM2 7 2500 K00SV	Mylar 0.0027µF 50V ±10%	1
C152	CM2 7 2500 K00SV	Mylar 0.0027µF 50V ±10%	1
C153	CM2 7 2500 K00SV	Mylar 0.0027µF 50V ±10%	1
C154	CM2 7 2500 K00SV	Mylar 0.0027µF 50V ±10%	1
C155	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C156	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C165	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C166	CD4 7 4500 0001V	Electrolytic 0.47µF 50V	1
C169	CD3 3 4500 0001V	Electrolytic 0.33µF 50V	1
C170	CD1 0 6250 0001V	Electrolytic 10µF 25V	1
C171	CC8 2 1500 KE01R	Ceramic 820pF 50V ±10%	1
C172	CC8 2 1500 KE01R	Ceramic 820pF 50V ±10%	1
C173	CD2 2 5500 0001V	Electrolytic 2.2µF 50V	1
C174	CD2 2 5500 0001V	Electrolytic 2.2µF 50V	1
C175	CD3 3 6160 0001V	Electrolytic 33µF 16V	1
C176	CD3 3 6160 0001V	Electrolytic 33µF 16V	1
C177	CD4 7 6350 0001V	Electrolytic 47µF 35V	1
C178	CD4 7 6350 0001V	Electrolytic 47µF 35V	1
C179	CD1 0 7350 0006V	Electrolytic 100µF 35V	1
C180	CD1 0 6350 0001V	Electrolytic 10µF 35V	1
C181	CD1 0 6350 0001V	Electrolytic 10µF 35V	1
C182	CD1 0 7350 0006V	Electrolytic 100µF 35V	1
C183	CM1 0 4500 J00TV	Mylar 0.1µF 50V ±5%	1
C184	CM1 0 4500 J00TV	Mylar 0.1µF 50V ±5%	1
C185	CD4 7 6160 0001V	Electrolytic 47µF 16V	1
C186	CD3 3 7160 0001V	Electrolytic 330µF 16V	1
C187	4 2239 71280	Electrolytic 1000µF 16V	1
C188	4 2239 71280	Electrolytic 1000µF 16V	1
C189	CD1 0 7160 0006V	Electrolytic 100µF 16V	1
C190	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C191	CD4 7 7250 0006V	Electrolytic 470µF 25V	1
C192	CD4 7 7250 0006V	Electrolytic 470µF 25V	1
C193	CD1 0 7250 0001V	Electrolytic 100µF 25V	1
C194	CD1 0 7250 0001V	Electrolytic 100µF 25V	1
C195	CD4 7 7160 0001V	Electrolytic 470µF 16V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
C196	CD4 7 7160 0001V	Electrolytic 470µF 16V	1
C197	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C198	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C199	4 2239 71160	Electrolytic 1000µF 25V	1
C200	4 2239 71160	Electrolytic 1000µF 25V	1
C201	4 2232 00430	Ceramic 0.01µFx2 250V	1
C202	4 2232 00430	Ceramic 0.01µFx2 250V	1
C203	CD4 7 8350 0005V	Electrolytic 4700µF 35V	1
C204	CD4 7 8350 0005V	Electrolytic 4700µF 35V	1
C205	4 2232 00430	Ceramic 0.01µFx2 250V	1
C206	4 2232 00430	Ceramic 0.01µFx2 250V	1
C207	CD4 7 6350 0001V	Electrolytic 47µF 35V	1
C209	CC1 0 3501 YEY0C	Ceramic 0.01µF 500V +100,-0%	1
C210	CD4 7 6350 0001V	Electrolytic 47µF 35V	1
C211	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C212	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C213	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C214	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C215	CD1 0 7160 0001V	Electrolytic 100µF 16V	1
C216	CC4 7 1500 KE01R	Ceramic 470pF 50V ±10%	1
C217	CC4 7 1500 KE01R	Ceramic 470pF 50V ±10%	1
C219	CD2 2 8160 0001V	Electrolytic 2200µF 16V	1
C221	CM1 0 4500 J00TV	Mylar 0.1µF 50V ±5%	1
C222	CM2 2 3500 K00SV	Mylar 0.022µF 50V ±10%	1
C223	CM2 2 3500 K00SV	Mylar 0.022µF 50V ±10%	1
C224	CD2 2 6250 0001V	Electrolytic 22µF 25V	1
C225	CC1 0 3500 ZG00C	Ceramic 0.01µF 50V +80,-20%	1
C226	CD4 7 5250 0001V	Electrolytic 4.7µF 25V	1
C227	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C228	CD2 2 6250 0001V	Electrolytic 22µF 25V	1
C229	CD2 2 6250 0001V	Electrolytic 22µF 25V	1
C230	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C231	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C233	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C234	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C235	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C236	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C237	CD2 2 6160 0001V	Electrolytic 22µF 16V	1
C238	CD2 2 6160 0001V	Electrolytic 22µF 16V	1
C239	CD1 0 6160 0001V	Electrolytic 10µF 16V	1
C241	CD1 0 4500 0001V	Electrolytic 0.1µF 50V	1
C242	CD1 0 4500 0001V	Electrolytic 0.1µF 50V	1
C244	CD1 0 4500 0001V	Electrolytic 0.1µF 50V	1
C245	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C246	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C247	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C248	CD1 0 5500 0001V	Electrolytic 1µF 50V	1
C249	CD2 2 5500 0001V	Electrolytic 2.2µF 50V	1
C250	CD2 2 5500 0001V	Electrolytic 2.2µF 50V	1
C260	CD2 2 6250 0001V	Electrolytic 22µF 25V	1
C261	CD1 0 5500 0002V	Electrolytic 1µF 50V	1
C301	CC1 0 1500 KE01R	Ceramic 100pF 50V ±10%	1
C303	CD2 2 5500 0001V	Electrolytic 2.2µF 50V	1
C304	CC2 2 3500 ZG00C	Ceramic 0.022µF 50V +80,-20%	1
C305	CC3 3 0500 JD01R	Ceramic 33pF 50V ±5%	1
C306	CS3 4 1500 J000V	Polystyroul 340pF 50V ±5%	1
C307	CS2 7 1500 J000V	Polystyroul 270pF 50V ±5%	1
C308	CD4 7 4500 0001V	Electrolytic 0.47µF 50V	1
C309	CD4 7 4500 0001V	Electrolytic 0.47µF 50V	1
C320	CC1 0 3500 ZG00C	Ceramic 0.1µF 50V +80,-20%	1
C321	CC1 0 3500 ZG00C	Ceramic 0.1µF 50V +80,-20%	1
C322	CC1 0 3500 ZG00C	Ceramic 0.1µF 50V +80,-20%	1
C323	CC1 0 3500 ZG00C	Ceramic 0.1µF 50V +80,-20%	1
C324	CC2 2 1500 KE01R	Ceramic 220pF 50V ±10%	1
C325	CC2 2 1500 KE01R	Ceramic 220pF 50V ±10%	1
C326	CC6 8 1500 KE00R	Ceramic 680pF 50V ±10%	1
C327	CC6 0 A500 DRH0C	Ceramic 6pF 50V ±0.5pF	1
C328	CC1 0 0500 DRH0C	Ceramic 10pF 50V ±0.5pF	1
C330	CI4 7 3250 MF00C	Boundary 0.047µF 25V ±20%	1
C601	CI3 3 3250 KF00C	Boundary 0.033µF 25V ±10%	1
C602	CC3 0 0500 JCH0C	Ceramic 30pF 50V ±5%	1
C603	CI1 0 3160 NG01R	Boundary 0.01µF 16V ±30%	1
C604	CC1 0 3500 ZG00C	Ceramic 0.01µF 50V +80,-20%	1
	SEMICONDUCTORS		
D01	4 2029 70790	Diode, ITT 410	1
D02	202 5 1420 00128	Diode, GMA 01	1
D03	202 5 1420 00128	Diode, GMA 01	1
D04	202 5 1420 00128	Diode, GMA 01	1
D06	202 5 1420 00128	Diode, GMA 01	1
D07	202 5 2810 44210	Diode, DS 442	1
D08	202 5 2810 44210	Diode, DS 442	1
D11	202 5 1420 00128	Diode, GMA 01	1
D12	202 5 1420 00128	Diode, GMA 01	1
D13	202 5 1420 00128	Diode, GMA 01	1
D14	202 5 1420 00128	Diode, GMA 01	1
D15	202 5 1420 00128	Diode, GMA 01	1
D16	202 5 1420 00128	Diode, GMA 01	1
D17	202 5 1420 00128	Diode, GMA 01	1
D18	202 5 1420 00128	Diode, GMA 01	1
D20	202 5 3210 11013	Zener Diode, GZA 11 Z	1
D21	202 5 3210 11013	Zener Diode, GZA 11 Z	1
D22	202 5 3210 18011	Zener Diode, GZA 18	1
D23	202 5 3210 18011	Zener Diode, GZA 18	1
D24	202 5 3210 13012	Zener Diode, GZA 13 Y	1
D25	202 5 3210 12012	Zener Diode, GZA 12 Y	1
D26 ⚠	DGG - W02- – – –	Diode, W 02	1
D27 ⚠	DGG - W02- – – –	Diode, W 02	1
D28 ⚠	202 5 2570 02015	Bridge Diode, DBA 20	1
D30 ⚠	202 5 2470 13540	Diode, DS 135 D	1
D31	202 5 1420 00128	Diode, GMA 01	1
D32	202 5 0220 01010	Diode, DSF 10 C	1
D34	202 5 1420 00128	Diode, GMA 01	1
D35	202 5 1420 00128	Diode, GMA 01	1
D36	202 5 1420 00128	Diode, GMA 01	1
D37	202 5 1420 00128	Diode, GMA 01	1
D38	4 2029 72461	Diode, 1SS 211	1
D39	4 2029 72461	Diode, 1SS 211	1
D41	4 2029 72461	Diode, 1SS 211	1
D42	4 2029 72461	Diode, 1SS 211	1
D43	202 5 2810 44210	Diode, DS 442	1
D44	4 2029 72461	Diode, 1SS 211	1
D45	4 2029 72461	Diode, 1SS 211	1
D46	4 2029 72461	Diode, 1SS 211	1
D47	4 2029 72461	Diode, 1SS 211	1
D48	4 2029 72461	Diode, 1SS 211	1
D49	4 2029 72461	Diode, 1SS 211	1
D50	4 2029 72461	Diode, 1SS 211	1
D51	4 2029 72461	Diode, 1SS 211	1
D52	4 2029 72461	Diode, 1SS 211	1
D53	4 2029 72461	Diode, 1SS 211	1
D54	4 2029 72461	Diode, 1SS 211	1
D55	4 2029 72461	Diode, 1SS 211	1
D56	4 2029 72461	Diode, 1SS 211	1
D57	4 2029 72461	Diode, 1SS 211	1
D58	4 2029 72461	Diode, 1SS 211	1
D59	4 2029 72461	Diode, 1SS 211	1
D61	4 2029 72461	Diode, 1SS 211	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
D62	4 2029 73520	Zener Diode, MZT 4.7 B	1
D63	4 2029 72461	Diode, 1SS 211	1
D64	4 2029 72461	Diode, 1SS 211	1
D65	202 5 3200 03321	Zener Diode, GZA 3.3 Y	1
D66	4 2029 72420	Zener Diode, MTZ 5.6 B	1
D67	4 2029 72461	Diode, 1SS 211	1
D68	4 2029 73510	Diode, 1SS 200	1
D69	4 2029 72461	Diode, 1SS 211	1
D70	4 2029 72461	Diode, 1SS 211	1
D71	202 5 2810 44210	Diode, DS 442	1
D72	4 2029 72461	Diode, 1SS 211	1
D73	202 5 1420 00128	Diode, GMA 01	1
D301	202 5 1420 00128	Diode, GMA 01	1
D302	202 5 1420 00128	Diode, GMA 01	1
IC01	4 2069 72420	IC, TA 7358 P	1
IC02	206 5 1231 23510	IC, LA 1235	1
IC03	206 5 1613 39010	IC, LA 3390	1
IC04	206 5 0191 24510	IC, LA 1245	1
IC05	206 5 0793 16010	IC, LA 3160	1
IC06	206 5 0793 16010	IC, LA 3160	1
IC07	4 2069 72300	IC, HA 12045 (Dolby NR IC)	1
IC08	4 2069 73760	IC, TD 62504 P	1
IC09	206 5 8897 81520	IC, LC 7815 H	1
IC10	206 5 1284 13110	IC, STK 4131 MK2 (Power Amp IC)	1
IC11	4 2069 73760	IC, TD 62504 P	1
IC12	4 2069 73790	IC, TD 62555 S	1
IC13	206 5 9464 01310	IC, LC 4013 B	1
IC14	4 2069 70312	IC, TC 4011 BP Nand	1
IC15	4 2069 70312	IC, TC 4011 BP Nand	1
Q01	203 5 5500 93050	Transistor, 2SC 930	1
Q02	203 5 5000 53660	Transistor, 2SC 536	1
Q03	203 5 5000 53660	Transistor, 2SC 536	1
Q04	203 5 5000 53660	Transistor, 2SC 536	1
Q06	203 5 4921 01270	Transistor, 2SD 1012	1
Q07	203 5 4921 01270	Transistor, 2SD 1012	1
Q08	203 5 5000 53660	Transistor, 2SC 536	1
Q09	203 5 5000 53660	Transistor, 2SC 536	1
Q10	203 5 4921 01270	Transistor, 2SD 1012	1
Q11	203 5 4921 01270	Transistor, 2SD 1012	1
Q12	203 5 5000 53660	Transistor, 2SC 536	1
Q13	203 5 5000 53660	Transistor, 2SC 536	1
Q14	203 5 5000 53660	Transistor, 2SC 536	1
Q15	203 5 5000 53660	Transistor, 2SC 536	1
Q16	203 5 6850 40050	Transistor, 2SD 400	1
Q20	203 5 5000 53660	Transistor, 2SC 536	1
Q21	203 5 5000 53660	Transistor, 2SC 536	1
Q22	203 5 5000 53660	Transistor, 2SC 536	1
Q23	203 5 5000 53660	Transistor, 2SC 536	1
Q24	203 5 4921 01270	Transistor, 2SD 1012	1
Q25	203 5 4921 01270	Transistor, 2SD 1012	1
Q32	203 5 5000 53660	Transistor, 2SC 536	1
Q33	203 5 5000 53660	Transistor, 2SC 536	1
Q40	203 5 5000 53660	Transistor, 2SC 536	1
Q41	203 5 5000 53660	Transistor, 2SC 536	1
Q42	203 5 5210 53650	Transistor, 2SC 536	1
Q43	203 5 5210 53650	Transistor, 2SC 536	1
Q44	203 5 5210 53660	Transistor, 2SC 536	1
Q45	203 5 5210 53660	Transistor, 2SC 536	1
Q46	203 5 5210 53660	Transistor, 2SC 536	1
Q47	203 5 5210 53660	Transistor, 2SC 536	1
Q48	203 5 5000 53650	Transistor, 2SC 536	1
Q49	203 5 5000 53650	Transistor, 2SC 536	1
Q50	203 5 5000 53650	Transistor, 2SC 536	1
Q51	203 5 5000 53650	Transistor, 2SC 536	1
Q52	4 2039 71542	Transistor, 2SD 1406	1
Q53	4 2039 71582	Transistor, 2SB 1016	1
Q54	4 2039 71542	Transistor, 2SD 1406	1
Q55	4 2039 71542	Transistor, 2SD 1406	1
Q56	203 5 5000 53650	Transistor, 2SC 536	1
Q57	203 5 5000 53650	Transistor, 2SC 536	1
Q58	203 5 5000 53660	Transistor, 2SC 536	1
Q59	203 5 7200 60850	Transistor, 2SA 608	1
Q60	203 5 7200 60850	Transistor, 2SA 608	1
Q61	203 5 5000 53650	Transistor, 2SC 536	1
Q62	203 5 5000 53650	Transistor, 2SC 536	1
Q63	203 5 7200 60850	Transistor, 2SA 608	1
Q64	203 5 7200 60850	Transistor, 2SA 608	1
Q65	203 5 5000 53650	Transistor, 2SC 536	1
Q67	203 5 5000 53650	Transistor, 2SC 536	1
Q68	203 5 5000 53650	Transistor, 2SC 536	1
Q69	203 5 5000 53650	Transistor, 2SC 536	1
Q70	203 5 5000 53650	Transistor, 2SC 536	1
Q71	203 5 6840 56050	Transistor, 2SB 560	1
Q72	203 5 6840 56050	Transistor, 2SB 560	1
Q73	203 5 5000 53650	Transistor, 2SC 536	1
Q301	203 5 5200 21250	FET, 2SK 212	1
Q302	203 5 4921 01270	Transistor, 2SD 1012	1
Q303	203 5 5000 53660	Transistor, 2SC 536	1
Q304	203 5 5000 53660	Transistor, 2SC 536	1
Q305	203 5 5000 53660	Transistor, 2SC 536	1
Q501	203 5 5000 53660	Transistor, 2SC 536	1
Q502	203 5 5000 53660	Transistor, 2SC 536	1
	RESISTORS		
R01	RD2 2 0251 JS000	Carbon 22Ω 1/4W ±5%	1
R02	RD4 7 4161 JH000	Carbon 470kΩ 1/6W ±5%	1
R03	RD6 8 0161 JH000	Carbon 68Ω 1/6W ±5%	1
R04	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R05	RD3 9 1161 JH000	Carbon 390Ω 1/6W ±5%	1
R06	RD3 3 1161 JH000	Carbon 330Ω 1/6W ±5%	1
R07	RD4 7 0161 JH000	Carbon 47Ω 1/6W ±5%	1
R08	RD3 3 1161 JH000	Carbon 330Ω 1/6W ±5%	1
R09	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R10	RD4 7 2251 JM000	Carbon 4.7kΩ 1/4W ±5%	1
R11	RD6 8 2161 JH000	Carbon 6.8kΩ 1/6W ±5%	1
R12	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R13	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R14	RD6 8 2161 JH000	Carbon 6.8kΩ 1/6W ±5%	1
R15	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R16	RD1 5 2251 JM000	Carbon 1.5kΩ 1/4W ±5%	1
R17	RD6 8 3161 JH000	Carbon 68kΩ 1/6W ±5%	1
R18	RD4 7 0251 JS000	Carbon 47Ω 1/4W ±5%	1
R19	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R20	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R21	RD5 6 1251 JM000	Carbon 560Ω 1/4W ±5%	1
R22	RD2 2 0251 JS000	Carbon 22Ω 1/4W ±5%	1
R23	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R24	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R25	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R26	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R27	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R28	RD1 0 0161 JH000	Carbon 10Ω 1/6W ±5%	1
R29	RD1 0 0161 JH000	Carbon 10Ω 1/6W ±5%	1
R30	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R31	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R32	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R33	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R34	RD1 2 3161 JH000	Carbon 12kΩ 1/6W ±5%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R35	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R36	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R37	RD1 0 0161 JH000	Carbon 10Ω 1/6W ±5%	1
R38	RD1 0 1251 JM000	Carbon 100Ω 1/4W ±5%	1
R39	RD1 8 3161 JH000	Carbon 18kΩ 1/6W ±5%	1
R40	RD1 8 3161 JH000	Carbon 18kΩ 1/6W ±5%	1
R41	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R42	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R43	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R44	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R45	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R46	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R47	RD1 5 2161 JH000	Carbon 1.5kΩ 1/6W ±5%	1
R48	RD1 5 2161 JH000	Carbon 1.5kΩ 1/6W ±5%	1
R49	RD3 9 1161 JH000	Carbon 390Ω 1/6W ±5%	1
R50	RD3 9 1161 JH000	Carbon 390Ω 1/6W ±5%	1
R51	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R52	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R54	RD1 0 1251 JM000	Carbon 100Ω 1/4W ±5%	1
R55	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R56	RD2 2 0161 JH000	Carbon 22Ω 1/6W ±5%	1
R57	RD1 5 2161 JH000	Carbon 1.5kΩ 1/6W ±5%	1
R58	RD1 5 2161 JH000	Carbon 1.5kΩ 1/6W ±5%	1
R59	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R60	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R61	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R62	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R63	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R64	RD1 8 2161 JH000	Carbon 1.8kΩ 1/6W ±5%	1
R65	RD1 0 1251 JM000	Carbon 100Ω 1/4W ±5%	1
R66	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R67	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R68	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R69	RD3 3 0161 JH000	Carbon 33Ω 1/6W ±5%	1
R70	RD3 3 0161 JH000	Carbon 33Ω 1/6W ±5%	1
R71	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R72	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R73	RD1 8 4161 JH000	Carbon 180kΩ 1/6W ±5%	1
R74	RD1 8 4161 JH000	Carbon 180kΩ 1/6W ±5%	1
R75	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R76	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R77	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R78	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R79	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R80	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R81	RD1 0 5161 JH000	Carbon 1MΩ 1/6W ±5%	1
R82	RD1 0 5161 JH000	Carbon 1MΩ 1/6W ±5%	1
R83	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R84	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R85	RD3 9 2161 JH000	Carbon 3.9kΩ 1/6W ±5%	1
R86	RD3 9 2161 JH000	Carbon 3.9kΩ 1/6W ±5%	1
R87	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R88	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R89	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R90	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R91	RD6 8 1251 JM000	Carbon 680Ω 1/4W ±5%	1
R93	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R94	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R95	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R96	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R97	RD3 3 0161 JH000	Carbon 33Ω 1/6W ±5%	1
R98	RD3 3 0161 JH000	Carbon 33Ω 1/6W ±5%	1
R99	RD1 8 4161 JH000	Carbon 180kΩ 1/6W ±5%	1
R100	RD1 8 4161 JH000	Carbon 180kΩ 1/6W ±5%	1
R101	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R102	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R103	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R104	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R105	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R106	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R107	RD3 9 2161 JH000	Carbon 3.9kΩ 1/6W ±5%	1
R108	RD3 9 2161 JH000	Carbon 3.9kΩ 1/6W ±5%	1
R109	RD1 0 5161 JH000	Carbon 1MΩ 1/6W ±5%	1
R110	RD1 0 5161 JH000	Carbon 1MΩ 1/6W ±5%	1
R111	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R112	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R113	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R114	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R115	RD6 8 1251 JM000	Carbon 680Ω 1/4W ±5%	1
R116	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R117	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R118	RD1 0 0161 JV000	Carbon 10Ω 1/6W ±5%	1
R119	RD1 0 0161 JV000	Carbon 10Ω 1/6W ±5%	1
R120	RD1 2 2251 JM000	Carbon 1.2kΩ 1/4W ±5%	1
R121	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R122	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R123	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R124	RD2 7 2161 JH000	Carbon 2.7kΩ 1/6W ±5%	1
R127	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R129	RD8 2 4161 JH000	Carbon 820kΩ 1/6W ±5%	1
R130	RD8 2 4161 JH000	Carbon 820kΩ 1/6W ±5%	1
R131	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R132	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R133	RD3 3 2251 JM000	Carbon 3.3kΩ 1/4W ±5%	1
R134	RD3 3 2251 JM000	Carbon 3.3kΩ 1/4W ±5%	1
R135	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R136	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R137	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R138	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R139	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R140	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R141	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R142	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R143	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R144	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R145	RD2 2 3251 JM000	Carbon 22kΩ 1/4W ±5%	1
R146	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R147	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R148	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R149	RD6 2 2161 JH000	Carbon 6.2kΩ 1/6W ±5%	1
R150	RD6 2 2161 JH000	Carbon 6.2kΩ 1/6W ±5%	1
R151	RD7 5 3161 JH000	Carbon 75kΩ 1/6W ±5%	1
R152	RD7 5 3161 JH000	Carbon 75kΩ 1/6W ±5%	1
R153	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R154	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R155	RD1 0 1251 JM000	Carbon 100Ω 1/4W ±5%	1
R156	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R157	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R159	RD8 2 2161 JH000	Carbon 8.2kΩ 1/6W ±5%	1
R160	RD8 2 2161 JH000	Carbon 8.2kΩ 1/6W ±5%	1
R161	RD8 2 3161 JH000	Carbon 82kΩ 1/6W ±5%	1
R162	RD8 2 3161 JH000	Carbon 82kΩ 1/6W ±5%	1
R165	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R166	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R171	RD1 8 2161 JH000	Carbon 1.8kΩ 1/6W ±5%	1
R172	RD1 8 2161 JH000	Carbon 1.8kΩ 1/6W ±5%	1
R175	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R176	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R177	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R178	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R179	RD1 2 3161 JH000	Carbon 12kΩ 1/6W ±5%	1
R180	RD1 2 3161 JH000	Carbon 12kΩ 1/6W ±5%	1
R181	RD3 3 4161 JH000	Carbon 330kΩ 1/6W ±5%	1
R182	RD3 3 4161 JH000	Carbon 330kΩ 1/6W ±5%	1
R183	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R184	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R185	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R186	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R187	RD5 6 1161 JH000	Carbon 560Ω 1/6W ±5%	1
R188	RD5 6 1161 JH000	Carbon 560Ω 1/6W ±5%	1
R189	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R190	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R191	RD6 8 3161 JH000	Carbon 68kΩ 1/6W ±5%	1
R192	RD6 8 3161 JH000	Carbon 68kΩ 1/6W ±5%	1
R195	RD4 7 1161 JH000	Carbon 470Ω 1/6W ±5%	1
R196	RD4 7 1161 JH000	Carbon 470Ω 1/6W ±5%	1
R197	RD2 7 3161 JH000	Carbon 27kΩ 1/6W ±5%	1
R198	RD2 7 3161 JH000	Carbon 27kΩ 1/6W ±5%	1
R199	RD3 9 1161 JH000	Carbon 390Ω 1/6W ±5%	1
R200	RD3 9 1161 JH000	Carbon 390Ω 1/6W ±5%	1
R201	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R202	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R203	RD1 2 1161 JH000	Carbon 120Ω 1/6W ±5%	1
R204	RD1 2 1161 JH000	Carbon 120Ω 1/6W ±5%	1
R209	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R216	RD3 9 2161 JH000	Carbon 3.9kΩ 1/6W ±5%	1
R217	RD3 9 2161 JH000	Carbon 3.9kΩ 1/6W ±5%	1
R218	RD8 2 2161 JH000	Carbon 8.2kΩ 1/6W ±5%	1
R219	RD8 2 2161 JH000	Carbon 8.2kΩ 1/6W ±5%	1
R240	RD4 7 4161 JH000	Carbon 470kΩ 1/6W ±5%	1
R241	RD4 7 4161 JH000	Carbon 470kΩ 1/6W ±5%	1
R243	RD4 7 4161 JH000	Carbon 470kΩ 1/6W ±5%	1
R244	RD4 7 4161 JH000	Carbon 470kΩ 1/6W ±5%	1
R245	RD4 7 4161 JH000	Carbon 470kΩ 1/6W ±5%	1
R247	RD4 7 4161 JH000	Carbon 470kΩ 1/6W ±5%	1
R251	RD8 2 4161 JH000	Carbon 820kΩ 1/6W ±5%	1
R253	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R254	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R255	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R256	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R259	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R260	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R261	RD5 6 1161 JH000	Carbon 560Ω 1/6W ±5%	1
R262	RD5 6 1161 JH000	Carbon 560Ω 1/6W ±5%	1
R263	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R264	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R265	RD2 2 2251 JS000	Carbon 2.2kΩ 1/4W ±5%	1
R266	RD2 2 2251 JS000	Carbon 2.2kΩ 1/4W ±5%	1
R267	RD2 2 2251 JS000	Carbon 2.2kΩ 1/4W ±5%	1
R268	RD2 2 2251 JS000	Carbon 2.2kΩ 1/4W ±5%	1
R269	RF1 0 1501 JZ000	Fuse 100Ω 1/2W ±5%	1
R270	RF1 0 1501 JZ000	Fuse 100Ω 1/2W ±5%	1
R271	RD1 0 2251 JS000	Carbon 1kΩ 1/4W ±5%	1
R272	RD1 0 2251 JS000	Carbon 1kΩ 1/4W ±5%	1
R273	RH1 0 0202 JZ003	Metal 10Ω 2W ±5%	1
R274	RH1 0 0202 JZ003	Metal 10Ω 2W ±5%	1
R275	RD2 2 1251 JM000	Carbon 220Ω 1/4W ±5%	1
R276	RD1 0 1251 JM000	Carbon 100Ω 1/4W ±5%	1
R277	RD2 7 1251 JS000	Carbon 270Ω 1/4W ±5%	1
R278	RD2 7 1251 JS000	Carbon 270Ω 1/4W ±5%	1
R279	RH1 0 1202 JZ003	Metal 100Ω 2W ±5%	1
R280	RH2 2 1202 JZ003	Metal 220Ω 2W ±5%	1
R281	RD5 6 A251 JM000	Carbon 5.6Ω 1/4W ±5%	1
R282	RD5 6 A251 JM000	Carbon 5.6Ω 1/4W ±5%	1
R283	RD3 3 1251 JM000	Carbon 330Ω 1/4W ±5%	1
R284	RD3 3 1251 JM000	Carbon 330Ω 1/4W ±5%	1
R285	RH4 7 0202 JZ003	Metal 47Ω 2W ±5%	1
R286	RH4 7 0202 JZ003	Metal 47Ω 2W ±5%	1
R287	RD5 6 A251 JM000	Carbon 5.6Ω 1/4W ±5%	1
R288	RD5 6 A251 JM000	Carbon 5.6Ω 1/4W ±5%	1
R289	RD6 8 1251 JM000	Carbon 680Ω 1/4W ±5%	1
R290	RD6 8 1251 JM000	Carbon 680Ω 1/4W ±5%	1
R291	RF4 7 A501 JZ000	Fuse 4.7Ω 1/2W ±5%	1
R292	RF4 7 A501 JZ000	Fuse 4.7Ω 1/2W ±5%	1
R293	RH1 5 2102 JZ003	Metal 1.5kΩ 1W ±5%	1
R294	RD3 9 3161 JH000	Carbon 39kΩ 1/6W ±5%	1
R295	RD1 5 4161 JH000	Carbon 150kΩ 1/6W ±5%	1
R296	RD2 7 4251 JM000	Carbon 270kΩ 1/4W ±5%	1
R297	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R299	RD5 6 4161 JH000	Carbon 560kΩ 1/6W ±5%	1
R300	RD5 6 4161 JH000	Carbon 560kΩ 1/6W ±5%	1
R301	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R302	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R303	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R304	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R305	RD1 2 2161 JH000	Carbon 1.2kΩ 1/6W ±5%	1
R306	RD1 2 2161 JH000	Carbon 1.2kΩ 1/6W ±5%	1
R307	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R308	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R309	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R310	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R311	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R312	RD3 3 3161 JH000	Carbon 33kΩ 1/6W ±5%	1
R313	RD3 3 3161 JH000	Carbon 33kΩ 1/6W ±5%	1
R314	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R315	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R316	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R319	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R320	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R321	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R322	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R323	RD2 2 1251 JM000	Carbon 220Ω 1/4W ±5%	1
R324	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R325	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R326	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R327	RD6 8 3161 JH000	Carbon 68kΩ 1/6W ±5%	1
R329	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R330	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R331	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R332	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R333	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R334	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R335	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R336	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R337	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R338	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R339	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R340	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R341	RD1 0 0161 JH000	Carbon 10Ω 1/6W ±5%	1
R342	RD1 0 0161 JH000	Carbon 10Ω 1/6W ±5%	1
R343	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R344	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R345	RD1 0 1161 JH000	Carbon 100Ω 1/6W ±5%	1
R346	RD1 0 1161 JH000	Carbon 100Ω 1/6W ±5%	1
R347	RD3 3 5161 JH000	Carbon 3.3MΩ 1/6W ±5%	1
R348	RD3 3 5161 JH000	Carbon 3.3MΩ 1/6W ±5%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R350	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R351	RD1 5 3161 JH000	Carbon 15kΩ 1/6W ±5%	1
R352	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R353	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R354	RD1 5 3161 JH000	Carbon 15kΩ 1/6W ±5%	1
R355	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R356	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R357	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R358	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R359	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R360	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R361	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R362	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R363	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R364	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R365	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R366	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R367	RD2 7 3161 JH000	Carbon 27kΩ 1/6W ±5%	1
R368	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R369	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R370	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R371	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R372	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R373	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R374	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R375	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R376	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R377	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R378	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R379	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R380	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R381	RD1 2 4161 JH000	Carbon 120kΩ 1/6W ±5%	1
R382	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R383	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R384	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R386	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R387	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R388	RD1 5 3161 JH000	Carbon 15kΩ 1/6W ±5%	1
R389	RD1 5 3161 JH000	Carbon 15kΩ 1/6W ±5%	1
R390	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R391	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R392	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R393	RD1 5 3161 JH000	Carbon 15kΩ 1/6W ±5%	1
R394	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R395	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R396	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R397	RD1 5 3161 JH000	Carbon 15kΩ 1/6W ±5%	1
R398	RD5 6 3161 JH000	Carbon 56kΩ 1/6W ±5%	1
R399	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R400	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R501	RD3 3 2251 JM000	Carbon 3.3kΩ 1/4W ±5%	1
R502	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R503	RD1 0 5161 JH000	Carbon 1MΩ 1/6W ±5%	1
R504	RD2 7 2161 JH000	Carbon 2.7kΩ 1/6W ±5%	1
R505	RD5 6 1161 JH000	Carbon 560Ω 1/6W ±5%	1
R506	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R507	RD3 3 2161 JH000	Carbon 3.3kΩ 1/6W ±5%	1
R508	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R509	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R510	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R511	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R512	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R513	RD1 0 2251 JM000	Carbon 1kΩ 1/4W ±5%	1
R514	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R515	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R601	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R602	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R603	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R604	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R605	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R606	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1

POWER SUPPLY P.C.B. ASSY

Ref. No.	Part No.	Description	Q'ty
PCB2	141 0 1939 07082	Power Supply P.C.B. Assy	1
	4 2262 20400	Power Supply P.C.B.	1
	4 2352 01940	Fuse Clip	10
	4 2372 00830	EC Terminal 1P	2
	111 2 6220 11100	Wire Wrap Terminal	12
F01	⚠ 4 2349 20240	Fuse T 1.6A	1
F02	⚠ 4 2349 20590	Fuse T 4.0A	1
F03	⚠ 4 2349 20590	Fuse T 4.0A	1
F04	⚠ 4 2349 20240	Fuse T 1.6A	1
F05	⚠ 4 2349 20240	Fuse T 1.6A	1

CAPACITORS

Ref. No.	Part No.	Description	Q'ty
C01	CC1 0 8250 0006V	Electrolytice 1000μF 25V	1
C02	CC1 0 8250 0006V	Electrolytice 1000μF 25V	1
C03	CC1 0 3501 YEY0C	Capacitor 0.01μF +100,-0%	1

SEMICONDUCTOR

Ref. No.	Part No.	Description	Q'ty
D01	DGG - W02- - - -	Diode, W02	1

POINTER P.C.B. ASSY

Ref. No.	Part No.	Description	Q'ty
PCB3	141 0 1939 07090	Pointer P.C.B. Assy	1
	4 2262 20410	Pointer P.C.B.	1

SEMICONDUCTOR

Ref. No.	Part No.	Description	Q'ty
D01	4 2029 73020	L.E.D., SLP-251B (Pointer)	1

GRAPHIC EQ. P.C.B. ASSY

Ref. No.	Part No.	Description	Q'ty
PCB4	141 0 1939 07101	Graphic EQ. P.C.B. Assy **(Black, Red)**	1
PCB4	141 0 1939 07102	Graphic EQ. P.C.B. Assy **(Pearl White)**	1
	4 2262 20441	Graphic EQ. P.C.B.	1
	4 2439 72178	Wire 5 Parallel	1
S10	4 2312 72550	Key Board Switch (MW)	1
S11	4 2312 05800	Key Board Switch (FM)	1
S12	4 2312 05800	Key Board Switch (LW)	1
S13	4 2312 05800	Key Board Switch (Auto Play)	1
VR01	4 2229 75210	Slide VR 100kΩ-Wx2 (50Hz) **(Black, Red)**	1
VR02	4 2229 75210	Slide VR 100kΩ-Wx2 (250Hz) **(Black, Red)**	1
VR03	4 2229 75210	Slide VR 100kΩ-Wx2 (1kHz) **(Black, Red)**	1
VR04	4 2229 75210	Slide VR 100kΩ-Wx2 (4.5kHz) **(Black, Red)**	1
VR05	4 2229 75210	Slide VR 100kΩ-Wx2 (15kHz) **(Black, Red)**	1
VR01	4 2229 75211	Slide VR 100kΩ-Wx2 (50Hz) **(Pearl White)**	1
VR02	4 2229 75211	Slide VR 100kΩ-Wx2 (250Hz) **(Pearl White)**	1
VR03	4 2229 75211	Slide VR 100kΩ-Wx2 (1kHz) **(Pearl White)**	1
VR04	4 2229 75211	Slide VR 100kΩ-Wx2 (4.5kHz) **(Pearl White)**	1
VR05	4 2229 75211	Slide VR 100kΩ-Wx2 (15kHz) **(Pearl White)**	1
PL04	4 2359 77615	Connector 3P Assy	1
PL06	4 2359 77348	Connector 4P Assy	1
PL12	4 2359 76911	Connector 15P Assy	1
	131 2 4208 41800	Spacer	1
	131 2 4208 45200	Spacer	1
	131 2 4208 45300	Spacer	4

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
	CAPACITORS		
C01	CD1 0 5500 0002V	Electrolytic 1μF 50V	1
C02	CD1 0 5500 0002V	Electrolytic 1μF 50V	1
C03	CD1 0 6160 0002V	Electrolytic 10μF 16V	1
C04	CD1 0 6160 0002V	Electrolytic 10μF 16V	1
C05	CD4 7 5250 0002V	Electrolytic 4.7μF 25V	1
C06	CD4 7 5250 0002V	Electrolytic 4.7μF 25V	1
C07	CD3 3 5250 0002V	Electrolytic 3.3μF 25V	1
C08	CD3 3 5250 0002V	Electrolytic 3.3μF 25V	1
C09	CD1 0 6250 0002V	Electrolytic 10μF 25V	1
C10	CD1 0 6250 0002V	Electrolytic 10μF 25V	1
C11	CC1 0 2500 KE01R	Ceramic 0.001μF 50V ±10%	1
C12	CC1 0 2500 KE01R	Ceramic 0.001μF 50V ±10%	1
C13	CM6 8 3500 J00TV	Mylar 0.068μF 50V ±5%	1
C14	CM6 8 3500 J00TV	Mylar 0.068μF 50V ±5%	1
C15	CD2 2 5500 0002V	Electrolytic 2.2μF 50V	1
C16	CD2 2 5500 0002V	Electrolytic 2.2μF 50V	1
C17	CM1 5 3500 J00TV	Mylar 0.015μF 50V ±5%	1
C18	CM1 5 3500 J00TV	Mylar 0.015μF 50V ±5%	1
C19	CM2 7 4500 J00TV	Mylar 0.27μF 50V ±5%	1
C20	CM2 7 4500 J00TV	Mylar 0.27μF 50V ±5%	1
C23	CM6 8 3500 J00TV	Mylar 0.068μF 50V ±5%	1
C24	CM6 8 3500 J00TV	Mylar 0.068μF 50V ±5%	1
C27	CM1 0 3500 J00TV	Mylar 0.01μF 50V ±5%	1
C28	CM1 0 3500 J00TV	Mylar 0.01μF 50V ±5%	1
C29	CC3 9 1500 KE01R	Ceramic 390pF 50V ±10%	1
C30	CC3 9 1500 KE01R	Ceramic 390pF 50V ±10%	1
C32	4 2239 71280	Electrolytic 1000μF 16V	1
C33	CI1 0 3160 NG01R	Boundary 0.01μF 16V ±30%	1
C34	CI1 0 3160 NG01R	Boundary 0.01μF 16V ±30%	1
C35	CI1 0 3160 NG01R	Boundary 0.01μF 16V ±30%	1
C36	CI2 2 2160 NF01R	Boundary 0.0022μF 16V ±30%	1
C37	CI3 9 2160 NF01R	Boundary 0.0039μF 16V ±30%	1
C38	CI3 9 2160 NF01R	Boundary 0.0039μF 16V ±30%	1
C39	CC1 0 2500 KE01R	Ceramic 0.001μF 50V ±10%	1
C40	CC1 0 2500 KE01R	Ceramic 0.001μF 50V ±10%	1
C41	CI3 9 2160 NF01R	Boundary 0.0039μF 16V ±30%	1
C42	CI3 9 2160 NF01R	Boundary 0.0039μF 16V ±30%	1
	SEMICONDUCTORS		
D01	202 5 0220 01010	Diode, DSF 10 C	1
D02	202 5 1420 00128	Diode, GMA 01	1
D04	202 5 1420 00128	Diode, GMA 01	1
D05	4 2029 72121	L.E.D., SLP 253 B (FM)	1
D06	4 2029 72121	L.E.D., SLP 253 B (Aux/CD)	1
D07	4 2029 72121	L.E.D., SLP 253 B (AM)	1
D08	DYY - SLR- 54PT-	L.E.D., SLR 54 PT (Phono)	1
D09	DYY - SLR- 54PT-	L.E.D., SLR 54 PT (Tuner)	1
D10	DYY - SLR- 54PT-	L.E.D., SLR 54 PT (Tape)	1
D11	D00 - SLP- 173B-	L.E.D., SLP 173 B (Stereo)	1
D12	4 2029 72120	L.E.D., SLP 153 B (Auto Play)	1
D13	4 2029 73010	L.E.D., SLF 206 B (Power)	1
D14	202 5 1420 00128	Diode, GMA 01	1
D15	202 5 1420 00128	Diode, GMA 01	1
D20	202 5 1420 00128	Diode, GMA 01	1
D21	202 5 1420 00128	Diode, GMA 01	1
IC01	4 2069 72920	IC, TC 9145 P	1
IC02	4 2069 73780	IC, M 5226 P	1
IC03	4 2069 73780	IC, M 5226 P	1
Q01	203 5 5210 53650	Transistor, 2SC 536	1
Q02	203 5 5210 53650	Transistor, 2SC 536	1
Q03	4 2039 70951	Transistor, 2SC 2878	1
Q04	4 2039 70951	Transistor, 2SC 2878	1
Q05	203 5 6850 40050	Transistor, 2SD 400	1
Q06	203 5 6850 40050	Transistor, 2SD 400	1

Ref. No.	Part No.	Description	Q'ty
Q07	4 2039 70951	Transistor, 2SC 2878	1
Q08	203 5 6850 40050	Transistor, 2SD 400	1
	RESISTORS		
R01	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R02	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R03	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R04	RD2 2 4161 JH000	Carbon 220kΩ 1/6W ±5%	1
R05	RD1 8 4161 JH000	Carbon 180kΩ 1/6W ±5%	1
R06	RD1 8 4161 JH000	Carbon 180kΩ 1/6W ±5%	1
R07	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R08	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R09	RD3 3 4161 JH000	Carbon 330kΩ 1/6W ±5%	1
R10	RD3 3 4161 JH000	Carbon 330kΩ 1/6W ±5%	1
R11	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R12	RD4 7 2161 JH000	Carbon 4.7kΩ 1/6W ±5%	1
R15	RD3 3 1161 JH000	Carbon 330Ω 1/6W ±5%	1
R16	RD3 3 1161 JH000	Carbon 330Ω 1/6W ±5%	1
R17	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R18	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R19	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R20	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R21	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R22	RD2 7 1161 JH000	Carbon 270Ω 1/6W ±5%	1
R23	RD2 2 1161 JH000	Carbon 220Ω 1/6W ±5%	1
R24	RD2 2 1161 JH000	Carbon 220Ω 1/6W ±5%	1
R25	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R26	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R27	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R28	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R29	RD4 7 3161 JH000	Carbon 47kΩ 1/6W ±5%	1
R30	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R31	RD1 2 3161 JH000	Carbon 12kΩ 1/6W ±5%	1
R32	RD1 2 3161 JH000	Carbon 12kΩ 1/6W ±5%	1
R33	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R34	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R35	RD1 2 2251 JM000	Carbon 1.2kΩ 1/4W ±5%	1
R36	RD4 7 1251 JM000	Carbon 470Ω 1/4W ±5%	1
R37	RD2 2 2251 JM000	Carbon 2.2kΩ 1/4W ±5%	1
R38	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R39	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R40	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R41	RD1 2 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R42	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
	VOLUME P.C.B. ASSY		
PCB5	141 0 1939 07110	Volume P.C.B. Assy	1
	4 2262 20450	Volume P.C.B. Assy	1
VR01	4 2229 74710	VR 200kΩ-Wx1 (Balance)	1
VR02	4 2229 74720	VR Slide 100kΩ-Bx2 (Volume)	1
	4 2439 72460	Wire 3 Parallel	1
	CAPACITORS		
C01	CM5 6 3500 J00TV	Mylar 0.056μF 50V ±5%	1
C02	CM5 6 3500 J00TV	Mylar 0.056μF 50V ±5%	1
	RESISTORS		
R01	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R02	RD2 2 2161 JH000	Carbon 2.2kΩ 1/6W ±5%	1
R03	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
R04	RD2 2 3161 JH000	Carbon 22kΩ 1/6W ±5%	1
	MIC MIXING P.C.B. ASSY		
PCB6	141 0 1939 07121	Mic Mixing P.C.B. Assy	1
	4 2262 20460	Mic Mixing P.C.B.	1
	4 2359 74010	1P Jack (Mic)	1
S05	4 2319 76611	Switch Push 1 Key (Rec Mute)	1
S06	4 2319 76620	Switch Push 1 Key (Dolby NR)	1
VR01	4 2229 74740	VR 10kΩ-Bx2 (Mic Mixing)	1
PL05	4 2359 77701	Connector 3P Assy	1
	CAPACITORS		
C01	CD1 0 5500 0002V	Electrolytic 1μF 50V	1
C02	CD2 2 5500 0002V	Electrolytic 2.2μF 50V	1
C03	CC3 3 1500 KE01R	Ceramic 330pF 50V ±10%	1
C04	CD2 2 6160 0002V	Electrolytic 22μF 16V	1
C05	CD4 7 6160 0002V	Electrolytic 47μF 16V	1
C06	CD4 7 6160 0002V	Electrolytic 47μF 16V	1
C08	CC1 0 2500 KE01R	Ceramic 0.001μF 50V ±10%	1
	SEMICONDUCTOR		
IC01	IJJ - NJM072D-E	IC, NJM 072D	1
	RESISTORS		
R01	RD5 6 2161 JH000	Carbon 5.6kΩ 1/6W ±5%	1
R02	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R04	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R05	RD1 0 2161 JH000	Carbon 1kΩ 1/6W ±5%	1
R06	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R07	RD1 0 4161 JH000	Carbon 100kΩ 1/6W ±5%	1
R08	RD1 0 2251 JS000	Carbon 1kΩ 1/4W ±5%	1
R09	RD1 0 2251 JS000	Carbon 1kΩ 1/4W ±5%	1
	HEADPHONE JACK P.C.B. ASSY		
PCB7	141 0 1939 07130	Headphone Jack P.C.B. Assy	1
	4 2262 20470	Headphone Jack P.C.B.	1
	4 2352 01591	Jack 7P 6.43 (Headphones)	1
PL07	131 0 4006 31407	Cord Assy	1
	RESISTORS		
R01	RH3 3 1501 JZ003	Metal 330Ω 1/2W ±5%	1
R02	RH3 3 1501 JZ003	Metal 330Ω 1/2W ±5%	1
R03	RH2 7 1501 JZ003	Metal 270Ω 1/2W ±5%	1
R04	RH2 7 1501 JZ003	Metal 270Ω 1/2W ±5%	1

Ref. No.	Part No.	Description	Q'ty
	LEVEL METER P.C.B. ASSY		
PCB8	141 0 1939 07140	Level Meter P.C.B. Assy	1
	4 2262 20480	Level Meter P.C.B.	1
	131 2 6113 50600	Shelter	1
PL10	4 2359 77327	Connector 8P Assy	1
	CAPACITORS		
C01	CD1 0 6160 0002V	Electrolytic 10μF 16V	1
C02	CD1 0 6160 0002V	Electrolytic 10μF 16V	1
	SEMICONDUCTORS		
D01	D00 - SLP- 258B-	L.E.D., SLP 258 B	1
D02	D00 - SLP- 258B-	L.E.D., SLP 258 B	1
D03	D00 - SLP- 258B-	L.E.D., SLP 258 B	1
D04	D00 - SLP- 258B-	L.E.D., SLP 258 B	1
D05	D00 - SLP- 258B-	L.E.D., SLP 258 B	1
D06	D00 - SLP- 258B-	L.E.D., SLP 258 B	1
D07	D00 - SLP- 158B-	L.E.D., SLP 158 B	1
D08	D00 - SLP- 158B-	L.E.D., SLP 158 B	1
D09	D00 - SLP- 158B-	L.E.D., SLP 158 B	1
D10	D00 - SLP- 158B-	L.E.D., SLP 158 B	1
IC01	4 2069 71900	IC, BA 6124	1
IC02	4 2069 71900	IC, BA 6124	1
	RESISTORS		
R01	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
R02	RD1 0 3161 JH000	Carbon 10kΩ 1/6W ±5%	1
	ASF SWITCH P.C.B. ASSY		
PCB9	141 0 1939 07150	ASF Switch P.C.B. Assy	1
	4 2262 20490	ASF Switch P.C.B.	1
SW01	4 2312 05801	Key Board Switch (ASF Program)	1
	4 2439 72480	Wire 2 Parallel	1
	ASF INDICATOR P.C.B. ASSY		
PCB10	141 0 1939 07160	ASF Indicator P.C.B. Assy	1
	4 2262 20500	ASF Indicator P.C.B.	1
	4 2439 72570	Wire 4 Parallel	1
	SEMICONDUCTORS		
D01	4 2029 72120	L.E.D., SLP 153 B (1)	1
D02	4 2029 72120	L.E.D., SLP 153 B (2)	1
D03	4 2029 72120	L.E.D., SLP 153 B (3)	1
	AUTO TAPE INDICATOR P.C.B. ASSY		
PCB11	141 0 1939 07170	Auto Tape Indicator P.C.B. Assy	1
	4 2262 20510	Auto Tape Indicator P.C.B.	1
	4 2439 72560	Wire 6 Parallel	1
	SEMICONDUCTORS		
D01	4 2029 72120	L.E.D., SLP 153 B (Record)	1
D02	4 2029 72123	L.E.D., SLP 453 B (Normal)	1
D03	4 2029 72121	L.E.D., SLP 253 B (CrO$_2$	1
D04	4 2029 72120	L.E.D., SLP 153 B (Metal)	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
	ASF CONTROL P.C.B. ASSY					
PCB12	141 0 1939 07180	ASF Control P.C.B. Assy				1
	4 2262 05200	ASF Control P.C.B.				1
PL11	4 2359 77275	Connector 10P Assy				1
	CAPACITORS					
C01	CI6 8 2160 NF01R	Boundary	0.0068μF	16V	±30%	1
C02	CD1 0 5500 0002V	Electrolytic	1μF	50V		1
C03	CM4 7 3500 K00SV	Mylar	0.047μF	50V	±10%	1
C04	CD1 0 5500 0002V	Electrolytic	1μF	50V		1
C05	CD1 0 5500 0002V	Electrolytic	1μF	50V		1
C06	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C07	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C08	CM6 8 3500 J00TV	Mylar	0.068μF	50V	±5%	1
C09	CD1 0 7160 0001V	Electrolytic	100μF	16V		1
	SEMICONDUCTORS					
D01	4 2029 73530	Zener Diode, MTZ 7.5 C				1
D02	202 5 3210 07513	Zener Diode, GZA 7.5 Z				1
D03	202 5 9600 44610	Diode, DS 446				1
D04	202 5 1420 00128	Diode, GMA 01				1
D05	202 5 1420 00128	Diode, GMA 01				1
D06	202 5 1420 00128	Diode, GMA 01				1
D07	202 5 1420 00128	Diode, GMA 01				1
IC01	206 5 8957 51210	IC, LC 7512				1
IC02	4 2069 73760	IC, TD 62504 P				1
Q01	203 5 5000 53650	Transistor, 2SC 536				1
Q02	203 5 4570 73452	Transistor, 2SD 734				1
Q03	203 5 6850 40050	Transistor, 2SD 400				1
	RESISTORS					
R01	RD6 8 4161 JH000	Carbon	680kΩ	1/6W	±5%	1
R02	RD1 5 4161 JH000	Carbon	150kΩ	1/6W	±5%	1
R03	RD1 0 3161 JH000	Carbon	10kΩ	1/6W	±5%	1
R04	RD6 8 1161 JH000	Carbon	680Ω	1/6W	±5%	1

Ref. No.	Part No.	Description				Q'ty
R05	RD5 6 2161 JH000	Carbon	5.6kΩ	1/6W	±5%	1
R06	RD1 5 4161 JH000	Carbon	150kΩ	1/6W	±5%	1
R07	RD1 5 4161 JH000	Carbon	150kΩ	1/6W	±5%	1
R08	RD2 2 2161 JH000	Carbon	2.2kΩ	1/6W	±5%	1
R09	RD1 5 4161 JH000	Carbon	150kΩ	1/6W	±5%	1
R10	RD2 2 1251 JM000	Carbon	220Ω	1/4W	±5%	1
R11	RD1 8 4161 JH000	Carbon	180kΩ	1/6W	±5%	1
R12	RD1 0 3161 JH000	Carbon	10kΩ	1/6W	±5%	1
R13	RD4 7 2161 JH000	Carbon	4.7kΩ	1/6W	±5%	1
R14	RD2 2 3161 JH000	Carbon	22kΩ	1/6W	±5%	1
R15	RD5 6 1251 JM000	Carbon	560Ω	1/4W	±5%	1
R16	RD6 8 1251 JM000	Carbon	680Ω	1/4W	±5%	1
R17	RD4 7 2161 JH000	Carbon	4.7kΩ	1/6W	±5%	1
R18	RD4 7 2161 JH000	Carbon	4.7kΩ	1/6W	±5%	1
R19	RD4 7 2161 JH000	Carbon	4.7kΩ	1/6W	±5%	1
R20	RD4 7 1251 JM000	Carbon	470Ω	1/4W	±5%	1
R21	RD1 2 2251 JM000	Carbon	1.2kΩ	1/4W	±5%	1
	AC SWITCH P.C.B. ASSY					
PCB13	141 0 1939 02634	AC Switch P.C.B. Assy				1
	4 2262 16841	AC Switch P.C.B.				1
	⚠ 4 2312 06051	Switch Push Power (Power)				1
	111 2 6220 11100	Wire Wrap Terminal				2
	131 2 6114 00210	Cover Safety				1
	CAPACITOR					
C01 ⚠	4 2239 70970	Ceramic	0.01μF	400V	+100,-0%	1
	BEAT SWITCH P.C.S. ASSY					
PCB14	141 0 1939 07630	Beat Switch P.C.B. Assy				1
	4 2262 21080	Beat Switch P.C.B.				1
	4 2319 76600	Switch Slide 2-2				1
	4 2359 76789	Connector 2P Assy				1

NOTES:

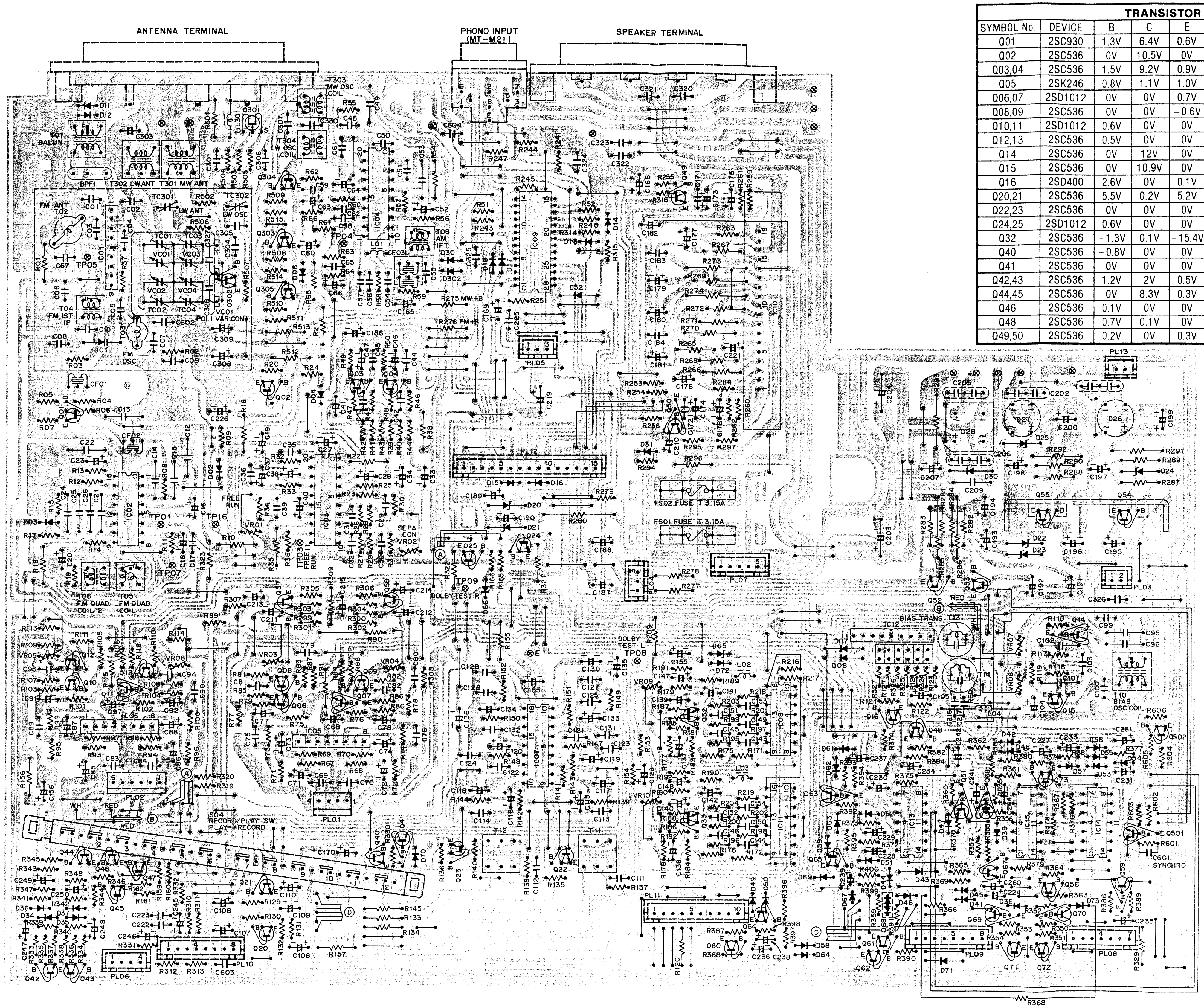
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

AF/RF P.C.BOARD IC VOLTAGES

		IC PIN NUMBERS DC VOLTAGES																			
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC01	TA7358P	0.3V	1.7V	7.2V	1.6V	0V	7.2V	6.4V	7.2V	7.2V											
IC02	LA1235	2.6V	2.6V	2.6V	0V	0.2V	3.3V	7.0V	6.1V	5.9V	5.9V	10.8V	6.0V	0.4mV	0V	0.5V	2.6V				
IC03	LA3390	11.3V	4.4V	4.4V	0.2V	0V	0.4V	4.3V	4.2V	4.3V	4.2V	2.9V	0V	10.3V	2.3V	2.3V	2.2V	2.3V	2.3V	2.3V	4.5V
IC04	LA1245	0.1V	0.6V	0.8V	0V	1.2V	1.1V	1.2V	1.2V	2.7V	7.9V	0.6V	0V	2.2V	10.1V	1.4V	0.3V	3.9V	1.2V	1.2V	0V
IC05	LA3160	1.2V	0.7V	5.9V	8.1V	0V	5.9V	0.7V	1.2V												
IC06	LA3160	1.3V	0.8V	5.9V	8.1V	0V	5.9V	0.8V	1.3V												
IC07	HA12045	5.3V	0.7V	0.7V	4.9V	4.9V	4.5V	4.8V	4.7V	0V	4.9V	0V	4.5V	4.9V	4.9V	0.7V	0.7V	9.7V	5.3V		
IC08	TD62504P	−0.3V	7.7V	0V	0V	4.2V	0V	0V	0V	3.8V	0V	0V	0V	2.0V	2.9V	0V	10.7V				
IC10	STK4131	−0.2V	−0.1V	0V	−27.6V	−1.2V	2.1V	−29.7V	−29V	−31.5V	0V	30V	28.9V	0V	−31.5V	−1.2V	0V	−0.1V	0.2V		
IC11	TD62504P	0V	7.7V	0V	0V	4.2V	0V	0V	0V	11.3V	0V	0V	0V	−0.5V	−1.5V	0V	−0.5V				
IC12	TD62555S	−0.2V	0.2V	0.5V	0.8V	0V	0V	0.1V	0.1V	0V											
IC13	LC4013	11.8V	0V	10.7V	0V	0V	0V	0V	0V	0V	0V	11.6V	11.6V	0V	11.6V						
IC14	TC4011	0.1V	0V	11.7V	11.7V	0V	11.7V	0V	11.8V	11.8V	0V	11.8V	0V	0V	11.8V						
IC15	TC4011	0.1V	0V	11.8V	0V	11.8V	11.7V	0V	11.8V	0V	11.6V	0V	11.8V	11.8V	11.8V						

AF/RF PRINTED CIRCUIT BOARD

(BOTTOM VIEW)

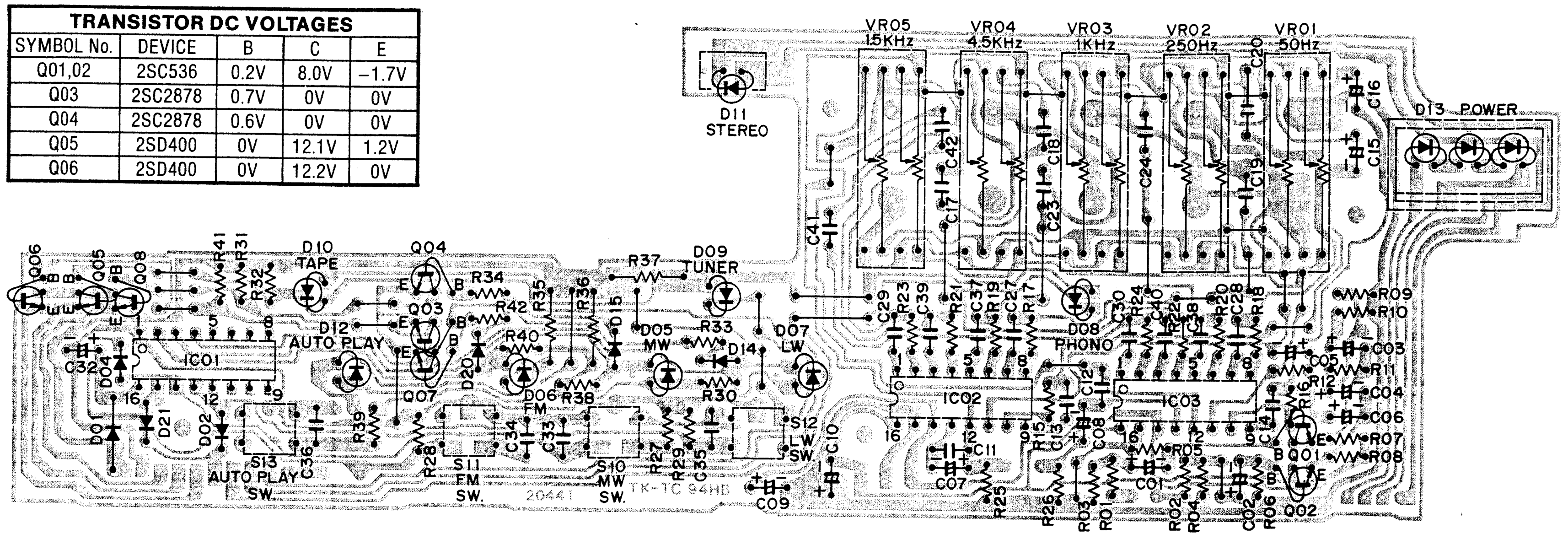

ANTENNA TERMINAL
PHONO INPUT
(MT-M21)
SPEAKER TERMINAL
T01 BALUN
BPF1
T302 LW ANT
T301 MW ANT
T303 MW OSC COIL
T304 LW OSC COIL
TC301
TC302
LW ANT
LW OSC
FM ANT T02
TC01
TC03
VC01
VC02
VC03
VC04
TC02
TC04
POLI VARICON
T04 FM 1ST IF
FM OSC
TP05
CF01
CF02
IC01
IC02
IC03
IC04
IC05
IC06
IC07
IC08
IC09
IC10
IC12
IC13
IC14
IC15
TP01
TP03
TP04
TP07
TP08
TP09
TP16
T05 FM QUAD. COIL 1
T06 FM QUAD. COIL 2
T08 AM IFT
FREE RUN
SEPA CON
VR01
VR02
VR03
VR04
VR05
VR06
VR07
VR08
VR09
VR10
DOLBY TEST R
DOLBY TEST L
PL01
PL02
PL03
PL05
PL06
PL07
PL08
PL09
PL10
PL11
PL12
PL13
FS01 FUSE T 3.15A
FS02 FUSE T 3.15A
BIAS TRANS T13
T10 BIAS OSC COIL
C601 SYNCHRO
S04 RECORD/PLAY SW
PLAY ← → RECORD
RED
WH
T11
T12
L01
L02
L03
L04

TRANSISTOR DC VOLTAGES									
SYMBOL No.	DEVICE	B	C	E	SYMBOL No.	DEVICE	B	C	E
Q01	2SC930	1.3V	6.4V	0.6V	Q51	2SC536	0.7V	0.1V	0V
Q02	2SC536	0V	10.5V	0V	Q52	2SD1406	19.3V	25.4V	18.8V
Q03,04	2SC536	1.5V	9.2V	0.9V	Q53	2SB1016	−19.6V	−26.8V	−19.1V
Q05	2SK246	0.8V	1.1V	1.0V	Q54	2SD1406	13.9V	18.7V	13.3V
Q06,07	2SD1012	0V	0V	0.7V	Q55	2SD1406	12.6V	17.3V	12.0V
Q08,09	2SC536	0V	0V	−0.6V	Q56	2SC536	0.1V	0V	0V
Q10,11	2SD1012	0.6V	0V	0V	Q57	2SC536	1.4V	7.6V	0.8V
Q12,13	2SC536	0.5V	0V	0V	Q59	2SA608	11.5V	12.1V	12.1V
Q14	2SC536	0V	12V	0V	Q60	2SA608	11.4V	12.1V	12.1V
Q15	2SC536	0V	10.9V	0V	Q61	2SC536	0.3V	0.1V	0V
Q16	2SD400	2.6V	0V	0.1V	Q62	2SC536	0.7V	0V	0V
Q20,21	2SC536	5.5V	0.2V	5.2V	Q63,64	2SA608	11.5V	12.1V	12.1V
Q22,23	2SC536	0V	0V	0V	Q65	2SC536	8.2V	7.6V	0V
Q24,25	2SD1012	0.6V	0V	0V	Q67	2SC536	0.4V	0V	0V
Q32	2SC536	−1.3V	0.1V	−15.4V	Q68	2SC536	0V	11.9V	0V
Q40	2SC536	−0.8V	0V	0V	Q69	2SC536	0.4V	13.2V	0V
Q41	2SC536	0V	0V	0V	Q70	2SC536	0.7V	0.1V	0V
Q42,43	2SC536	1.2V	2V	0.5V	Q71	2SB560	13.1V	0.9V	13.2V
Q44,45	2SC536	0V	8.3V	0.3V	Q72	2SB560	12.5V	13.2V	13.2V
Q46	2SC536	0.1V	0V	0V	Q73	2SC536	0V	0.1V	0V
Q48	2SC536	0.7V	0.1V	0V	Q501	2SC536	0V	10.7V	0V
Q49,50	2SC536	0.2V	0V	0.3V	Q502	2SC536	0V	11.2V	0V

GRAPHIC EQ. P.C.BOARD

(BOTTOM VIEW)

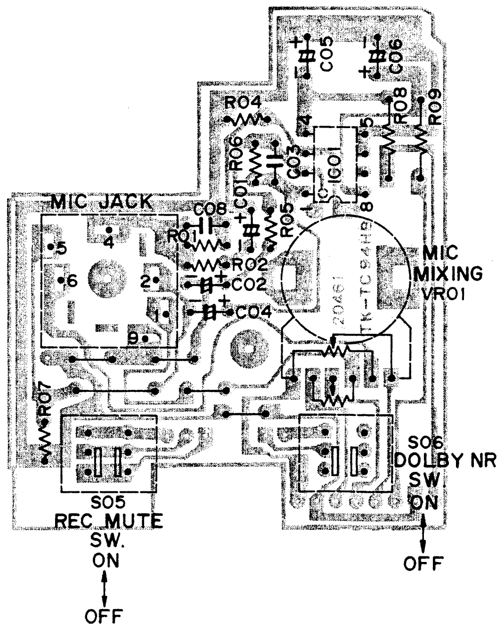
TRANSISTOR DC VOLTAGES				
SYMBOL No.	DEVICE	B	C	E
Q01,02	2SC536	0.2V	8.0V	−1.7V
Q03	2SC2878	0.7V	0V	0V
Q04	2SC2878	0.6V	0V	0V
Q05	2SD400	0V	12.1V	1.2V
Q06	2SD400	0V	12.2V	0V


VR05 1.5KHz
VR04 4.5KHz
VR03 1KHz
VR02 250Hz
VR01 50Hz
D11 STEREO
D13 POWER
D10 TAPE
D12 AUTO PLAY
D09 TUNER
D05 MW
D07 LW
D06 FM
D08 PHONO
IC01
IC02
IC03
S13 AUTO PLAY SW.
S11 FM SW.
S10 MW SW.
S12 LW SW.
TK-TC 94HB

IC PIN NUMBERS DC VOLTAGES																	
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC01	TC9145P	0V	0.5V	2.1V	2.2V	0.9V	0.9V	0.9V	1.0V	0.9V	1.0V	1.0V	1.0V	0V	0V	0V	12V
IC02,03	M5226P	−0.1V	−0.8V	0.3V	0.8V	0.4V	−0.8V	0.4V	−0.8V	0V	−0.8V	0V	0V	0V	7.9V	0V	−8.3V

MIC MIXING P.C.BOARD

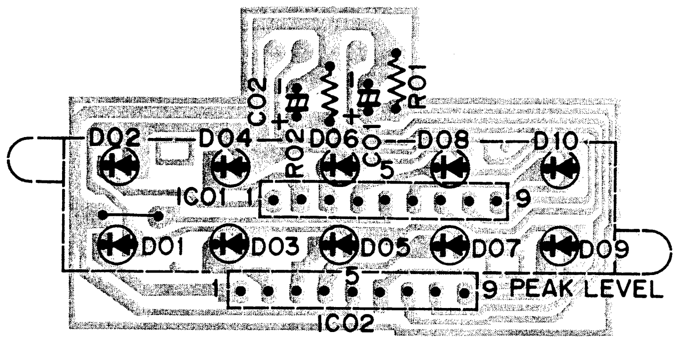
(BOTTOM VIEW)


MIC JACK
IC01
MIC MIXING VR01
S06 DOLBY NR SW
ON
OFF
S05 REC MUTE SW.
ON
OFF

IC PIN NUMBERS DC VOLTAGES									
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8
IC01	LA6458	0V	0V	0V	−4.5V	0V	0V	−2.7V	4.0V

LEVEL METER P.C.BOARD

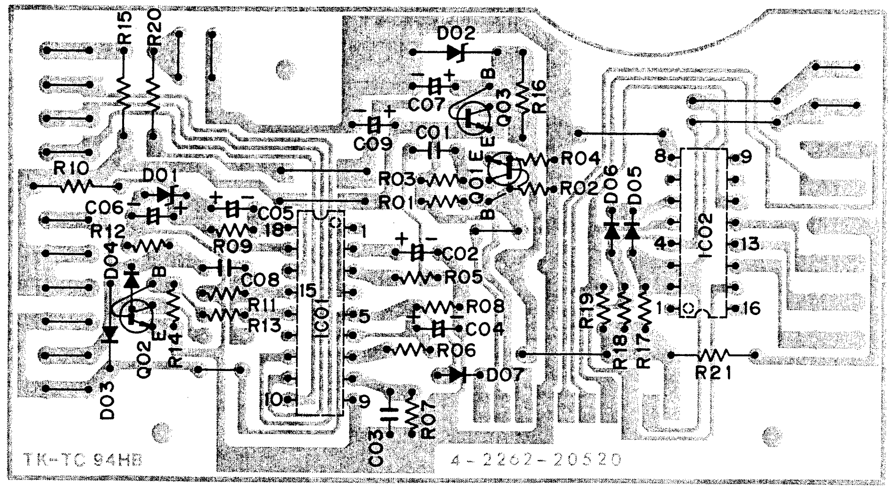
(BOTTOM VIEW)


D02
D04
D06
D08
D10
D01
D03
D05
D07
D09
IC01
IC02
9 PEAK LEVEL

IC PIN NUMBERS DC VOLTAGES										
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9
IC01,02	BA6124	0.1V	5.6V	5.6V	5.6V	0V	5.6V	0.1V	0V	0.3V

ASF CONTROL P.C.BOARD

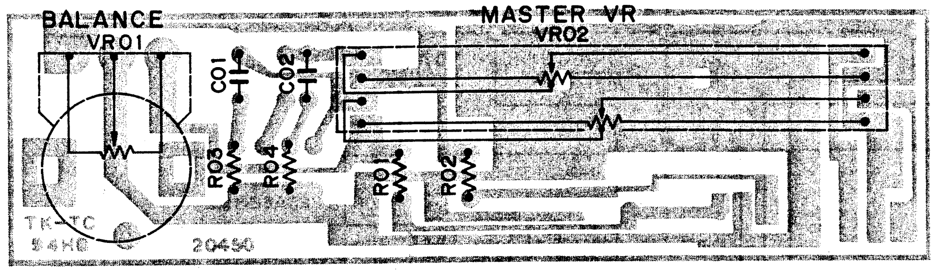
(BOTTOM VIEW)


IC01
IC02
Q01
Q02
Q03
TK-TC 94HB
4-2262-20520

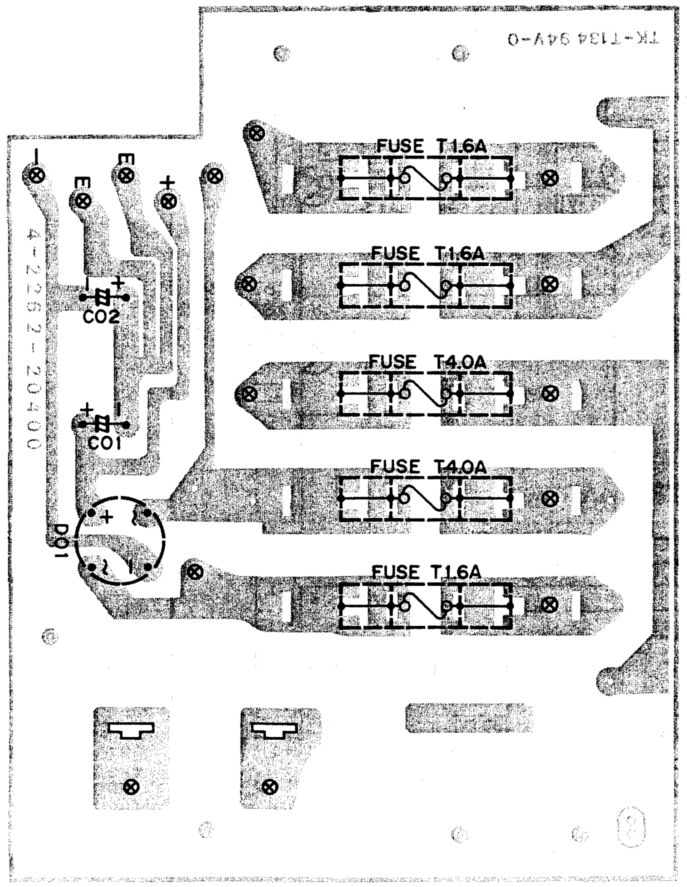
TRANSISTOR DC VOLTAGES				
SYMBOL No.	DEVICE	B	C	E
Q01	2SC536	0.7V	1.5V	0.4V
Q02	2SD734	0.7V	0V	0V
Q03	2SD400	7.7V	12V	7.1V

IC PIN NUMBERS DC VOLTAGES																			
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IC01	LC7512	0V	2.9V	2.4V	7.1V	0V	0V	0V	0V	0V	7.1V	7.1V	0.2V	0.3V	7.0V	0V	7.1V	6.9V	0V
IC02	TD62504P	0V	0V	0V	0V	4.3V	0V	0V	0V	−0.2V	−0.2V	4.2V	0.1V	0.6V	0.6V	0V	−0.2V		

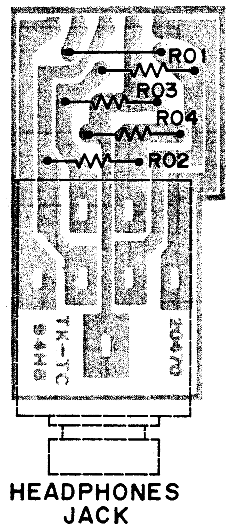
VOLUME P.C.BOARD
(BOTTOM VIEW)


BALANCE
VR01
MASTER VR
VR02
C01
C02
R05
R04
R01
R02
TK-TC
54H6
20460

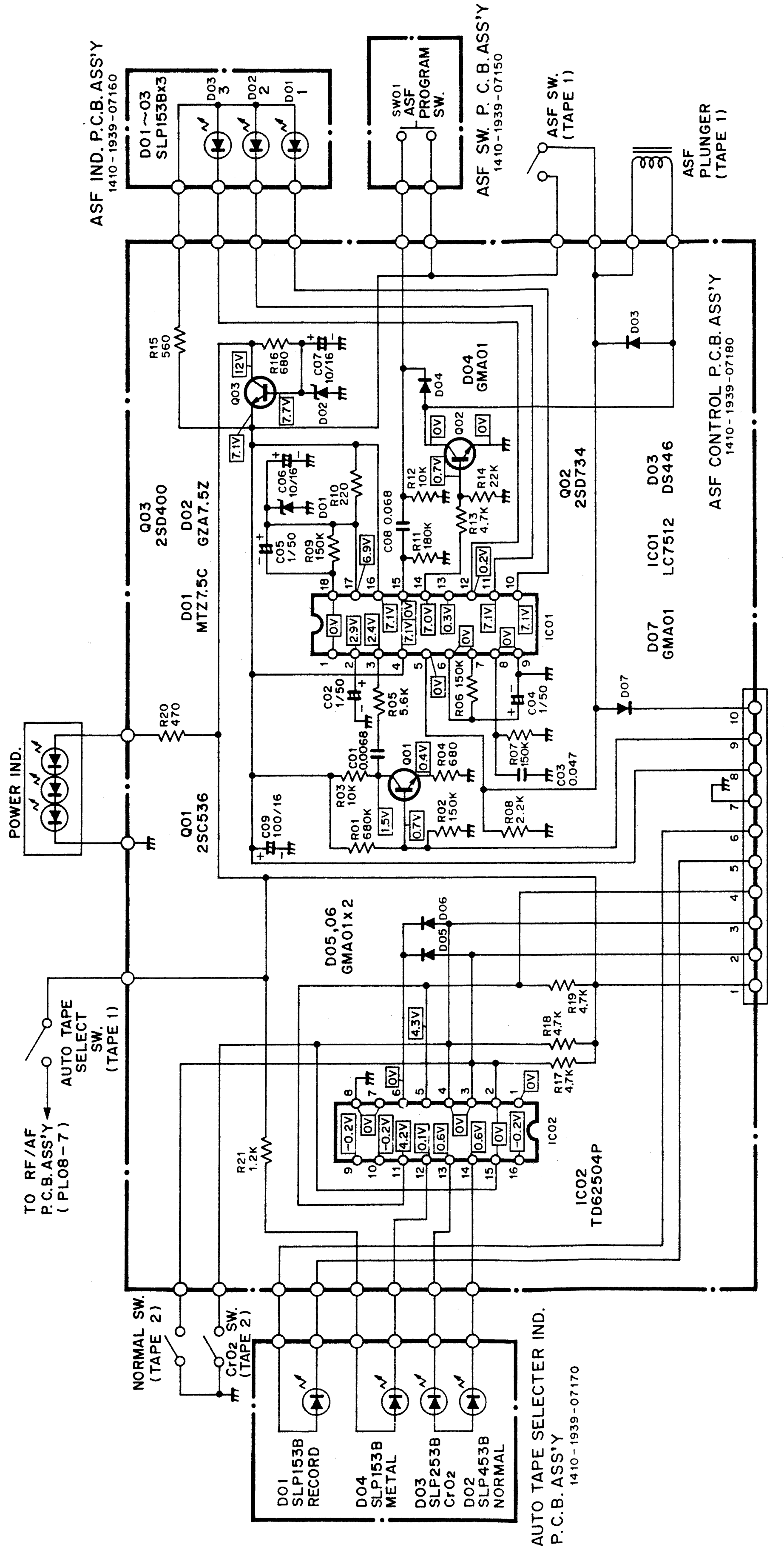
POWER SUPPLY P.C.BOARD
(BOTTOM VIEW)


TK-T134 94V-0
E
E
+
-
FUSE T1.6A
FUSE T1.6A
FUSE T4.0A
FUSE T4.0A
FUSE T1.6A
C02
C01
D01
4-2262-20400

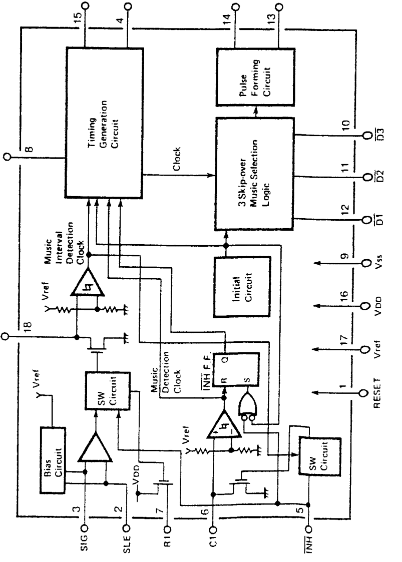
HEADPHONE JACK P.C.BOARD
(BOTTOM VIEW)


R01
R03
R04
R02
TK-TC
54H6
20470
HEADPHONES
JACK

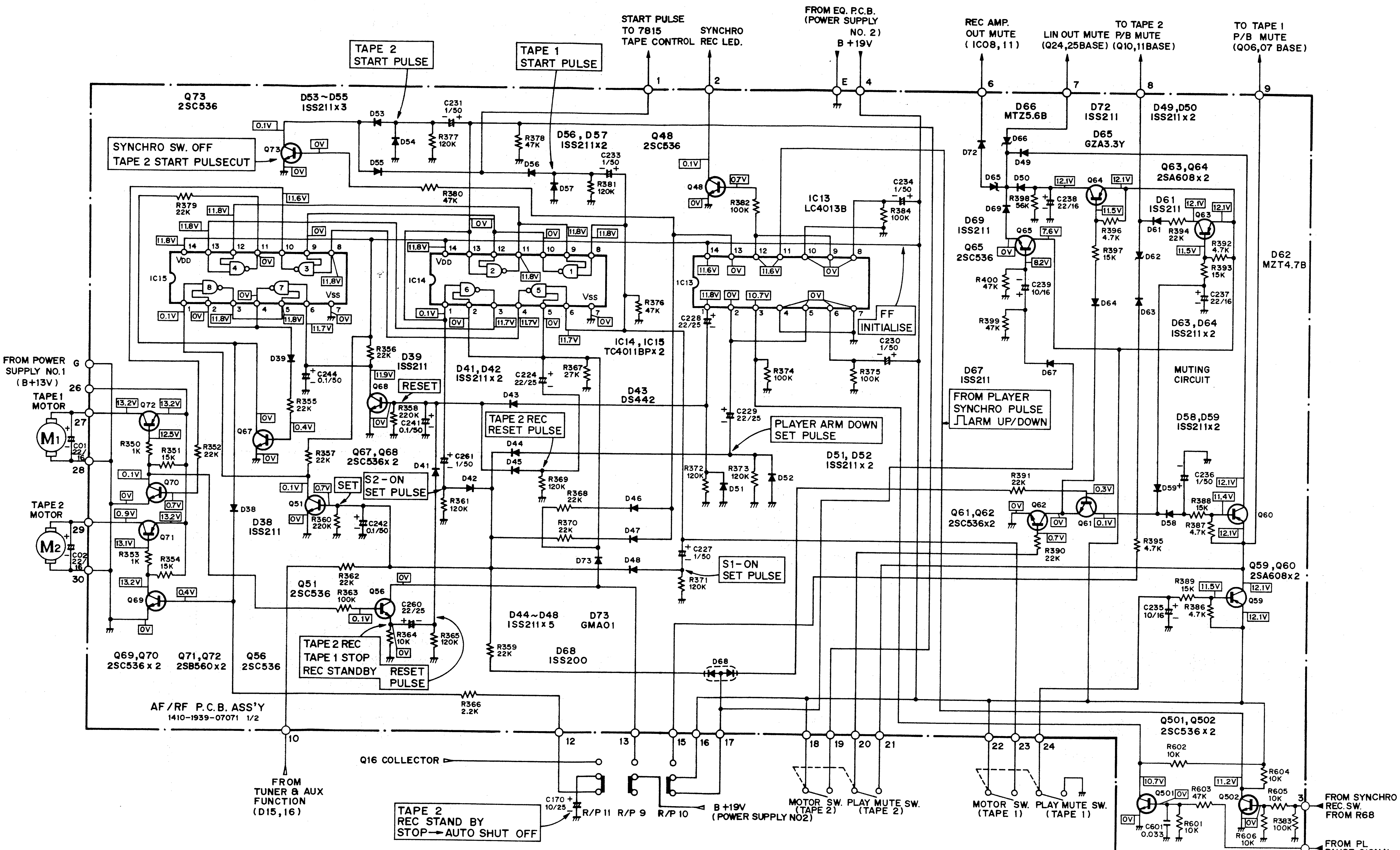
SCHEMATIC DIAGRAM
(ASF CONTROL SECTION)


ASF IND. P.C.B. ASS'Y
1410-1939-07160
D01~03
SLP153Bx3
D03 3
D02 2
D01 1
SW01
ASF
PROGRAM
SW.
ASF SW. P.C.B. ASS'Y
1410-1939-07150
ASF SW.
(TAPE 1)
ASF
PLUNGER
(TAPE 1)
ASF CONTROL P.C.B. ASS'Y
1410-1939-07180
Q03
2SD400
D02
GZA7.5Z
D01
MTZ7.5C
Q01
2SC536
Q02
2SD734
D04
GMA01
D03
DS446
IC01
LC7512
D07
GMA01
D05,06
GMA01x2
IC02
TD62504P
POWER IND.
TO RF/AF
P.C.B. ASS'Y
(PL08-7)
AUTO TAPE
SELECT
SW.
(TAPE 1)
NORMAL SW.
(TAPE 2)
CrO2 SW.
(TAPE 2)
TO AF/RF P.C.B. ASS'Y (PL11)
AUTO TAPE SELECTER IND.
P.C.B. ASS'Y
1410-1939-07170
D01
SLP153B
RECORD
D04
SLP153B
METAL
D03
SLP253B
CrO2
D02
SLP453B
NORMAL
R15 560
R16 680
C07 10/16
C06 10/16
R10 220
C05 1/50
R09 150K
C08 0.068
R11 180K
R12 10K
R13 4.7K
R14 22K
R20 470
C02 1/50
R05 5.6K
R06 150K
C04 1/50
C01 0.0068
R04 680
R07 150K
C03 0.047
C09 100/16
R03 10K
R01 680K
R02 150K
R08 2.2K
R18 4.7K
R19 4.7K
R17 4.7K
R21 1.2K
12V
7.7V
7.1V
6.9V
2.9V
2.4V
7.0V
0.3V
0.2V
0.4V
1.5V
0.7V
0V
4.3V
-0.2V
4.2V
0.1V
0.6V

ASF SENSOR IC LC 7512


OSC
CR2
SIG
SLE
R1
C1
INH
RESET
SW
S/D
CR3
PO
Timing Generation Circuit
Pulse Forming Circuit
Clock
33bit-over Music Selection Logic
Initial Circuit
Music Interval Detection Clock
Music Detection Clock
INH F.F
Vref
SW Circuit
Bias Circuit
VDD
Vss
D1
D2
D3

SCHEMATIC DIAGRAM
(TAPE CONTROL SECTION)

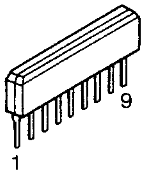


TAPE 2 START PULSE
TAPE 1 START PULSE
START PULSE TO 7815 TAPE CONTROL
SYNCHRO REC LED.
FROM EQ. P.C.B. (POWER SUPPLY NO. 2) B +19V
REC AMP. OUT MUTE (IC08,11)
LIN OUT MUTE (Q24,25BASE)
TO TAPE 2 P/B MUTE (Q10,11BASE)
TO TAPE 1 P/B MUTE (Q06,07 BASE)
Q73 2SC536
D53~D55 1SS211x3
SYNCHRO SW. OFF TAPE 2 START PULSECUT
D56, D57 1SS211x2
Q48 2SC536
IC13 LC4013B
D66 MTZ5.6B
D72 1SS211
D49,D50 1SS211x2
D65 GZA3.3Y
Q63,Q64 2SA608x2
D61 1SS211
D69 1SS211
Q65 2SC536
D62 MZT4.7B
D63,D64 1SS211x2
IC15
IC14
IC14, IC15 TC4011BPx2
FF INITIALISE
FROM POWER SUPPLY NO.1 (B+13V)
TAPE1 MOTOR
TAPE2 MOTOR
M1
M2
D39 1SS211
RESET
D41,D42 1SS211x2
D43 DS442
TAPE 2 REC RESET PULSE
PLAYER ARM DOWN SET PULSE
D51, D52 1SS211x2
FROM PLAYER SYNCHRO PULSE ARM UP/DOWN
D67 1SS211
MUTING CIRCUIT
D58,D59 1SS211x2
Q67,Q68 2SC536x2
S2-ON SET PULSE
SET
D38 1SS211
Q61,Q62 2SC536x2
S1-ON SET PULSE
Q59,Q60 2SA608x2
Q51 2SC536
D44~D48 1SS211x5
D73 GMA01
D68 1SS200
TAPE 2 REC TAPE 1 STOP REC STANDBY RESET PULSE
Q69,Q70 2SC536x2
Q71,Q72 2SB560x2
Q56 2SC536
AF/RF P.C.B. ASS'Y 1410-1939-07071 1/2
Q501,Q502 2SC536x2
Q16 COLLECTOR
FROM TUNER & AUX FUNCTION (D15,16)
TAPE 2 REC STAND BY STOP→AUTO SHUT OFF
R/P 11 R/P 9 R/P 10
B +19V (POWER SUPPLY NO2)
MOTOR SW. (TAPE 2)
PLAY MUTE SW. (TAPE 2)
MOTOR SW. (TAPE 1)
PLAY MUTE SW. (TAPE 1)
FROM SYNCHRO REC.SW. FROM R68
FROM PL PAUSE SIGNAL

SEMICONDUCTOR LEAD IDENTIFICATION

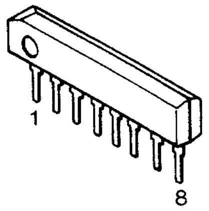
INTEGRATED CIRCUITS

FM FRONT END IC



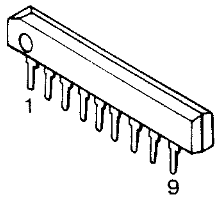
- TA 7358 P
- TD 62555 S

R / P AMP IC



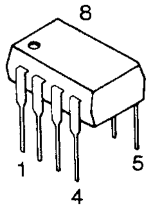
- LA 3160

LEVEL METER IC



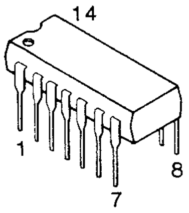
- BA 6124

DC AMP IC



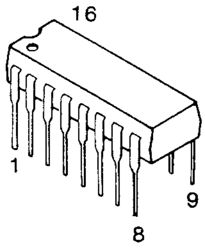
- LA 6458 DX

NAND LOGIC IC
DUAL FLIP FLOP IC



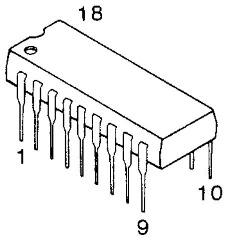
- LC 4011 B
- LC 4013 B

FM IF AMP IC
FUNCTION SW. IC



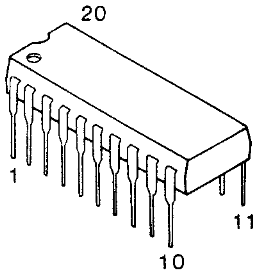
- LA 1235
- TC 9145 P
- TA 62504 P
- M 5226 P

ASF SENSOR IC
DOLBY NR IC



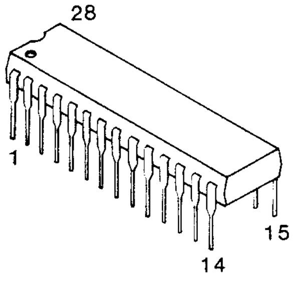
- LC 7512
- HA 12045

AM RF IF AMP IC
FM MPX IC



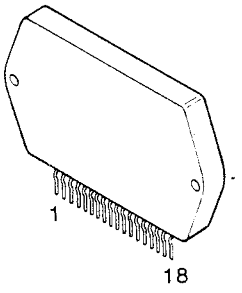
- LA 1245
- LA 3390

ANALOGUE
FUNCTION SW. IC



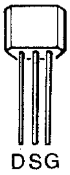
- LC 7815 H

POWER AMPLIFIER IC

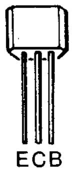


- STK 4131 II

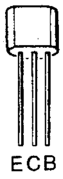
TRANSISTORS



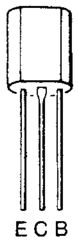
- 2SK 246



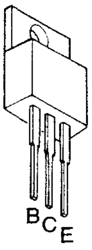
- 2SD 1012



- 2SC 930
- 2SC 536
- 2SA 608
- 2SD 734
- 2SC 2878



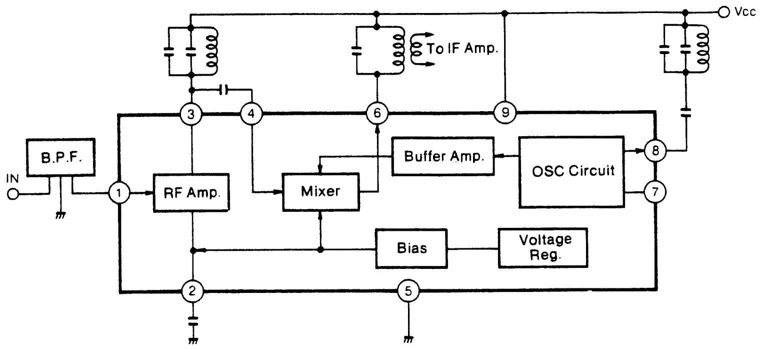
- 2SD 400



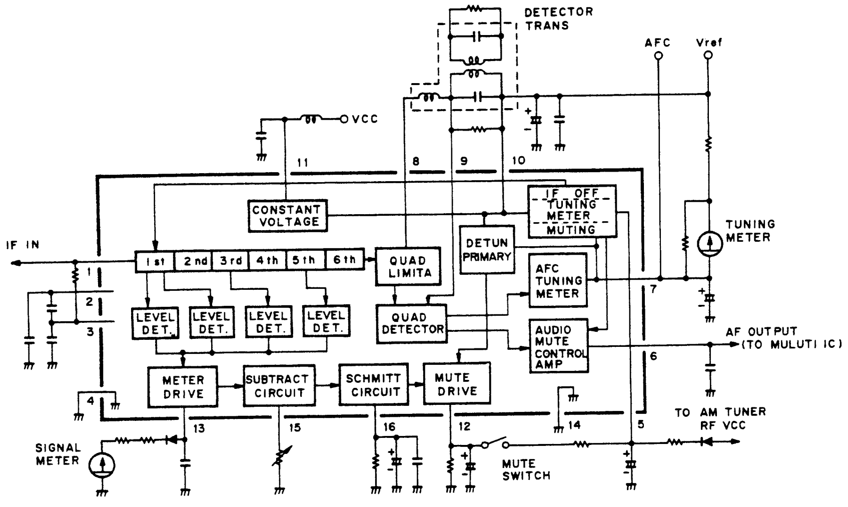
- 2SD 1406
- 2SB 1016

TAC-M21 SCHEMATIC DIAGR

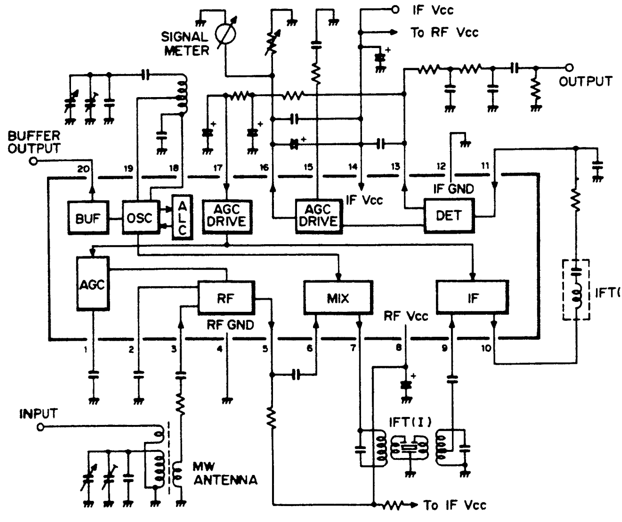
FM FRONT END IC TA 7358 P


Vcc
To IF Amp.
Buffer Amp.
OSC Circuit
B.P.F.
IN
RF Amp.
Mixer
Bias
Voltage Reg.

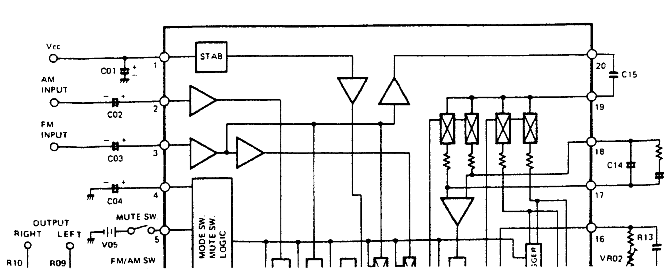
FM IF AMP IC LA 1235

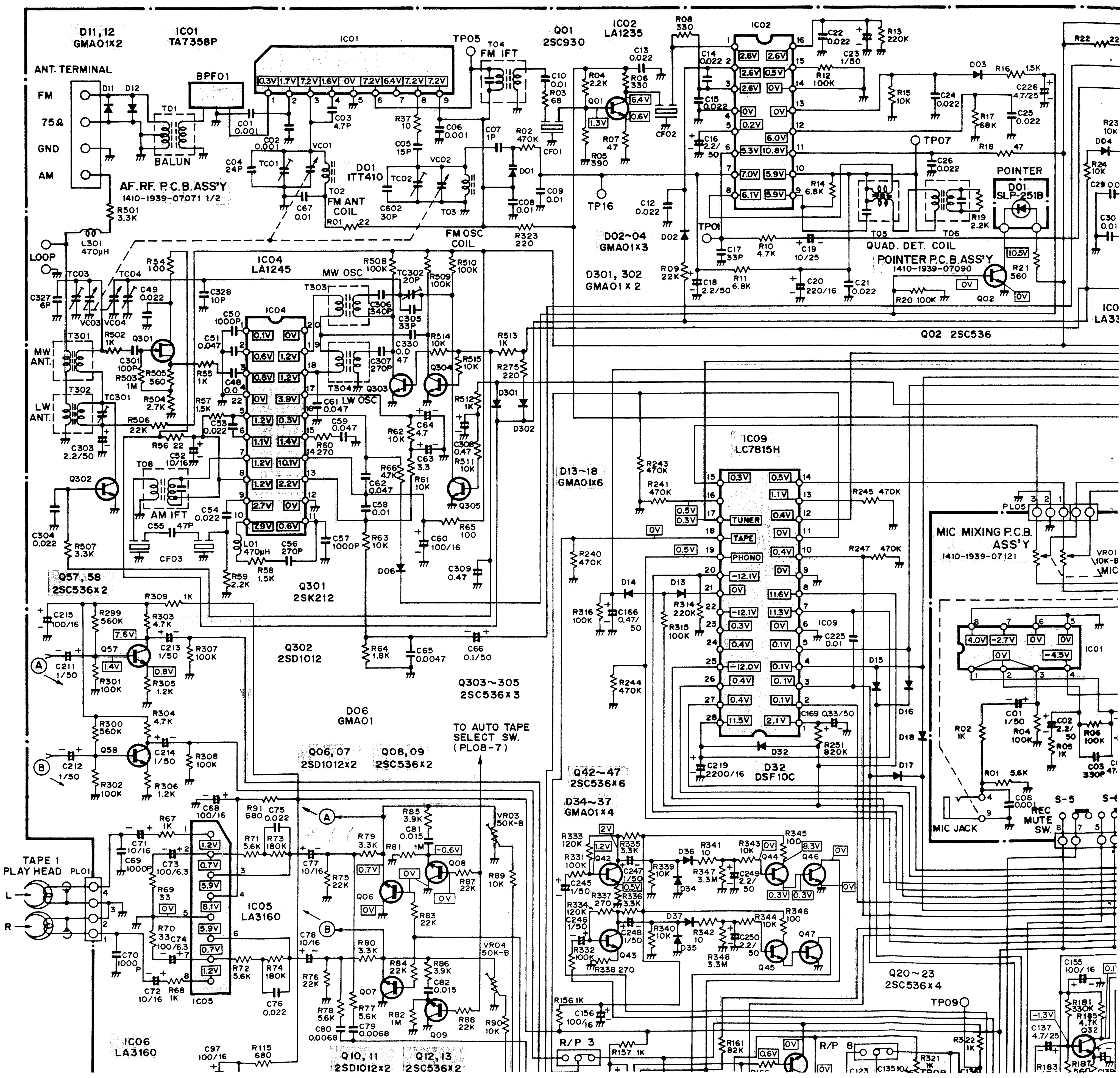

DETECTOR TRANS
AFC
Vref
VCC
IF IN
CONSTANT VOLTAGE
IF OFF TUNING METER MUTING
TUNING METER
1st
2nd
3rd
4th
5th
6th
QUAD LIMITA
DETUN PRIMARY
AFC TUNING METER
LEVEL DET.
QUAD DETECTOR
AUDIO MUTE CONTROL AMP
AF OUTPUT (TO MULUTI IC)
METER DRIVE
SUBTRACT CIRCUIT
SCHMITT CIRCUIT
MUTE DRIVE
TO AM TUNER RF VCC
SIGNAL METER
MUTE SWITCH

AM RF IF AMP IC LA 1245


IF Vcc
To RF Vcc
SIGNAL METER
OUTPUT
BUFFER OUTPUT
IF GND
BUF
OSC
ALC
AGC DRIVE
IF Vcc
DET
AGC
RF
MIX
IF
RF GND
RF Vcc
IFT(II)
INPUT
IFT(I)
MW ANTENNA
To IF Vcc

FM MPX IC LA 3390


Vcc
STAB
AM INPUT
FM INPUT
OUTPUT
RIGHT
LEFT
MUTE SW
FM/AM SW
MODE SW
MUTE SW
LOGIC
C15
R14
C13
C12
R13
VR02


D11, 12 GMA01x2
IC01 TA7358P
IC01
TP05
Q01 2SC930
IC02 LA1235
IC02
ANT. TERMINAL
FM
75Ω
GND
AM
BPF01
BALUN
T04 FM IFT
TC01
VC01
D01 ITT410
TC02
VC02
T02 FM ANT COIL
T03
FM OSC COIL
AF.RF. P.C.B.ASS'Y 1410-1939-07071 1/2
TP16
TP01
TP07
QUAD. DET. COIL
T05
T06
POINTER
D01 SLP-251B
POINTER P.C.B.ASS'Y 1410-1939-07090
Q02
Q02 2SC536
D02~04 GMA01x3
D301, 302 GMA01x2
LOOP
L301 470μH
TC03
TC04
VC03
VC04
IC04 LA1245
MW OSC
T303
T304
LW OSC
MW ANT.
LW ANT.
T301
T302
TC301
Q301
Q302
Q303
Q304
Q305
T08
AM IFT
CF03
L01 470μH
Q301 2SK212
Q57, 58 2SC536x2
Q302 2SD1012
Q303~305 2SC536x3
D06 GMA01
TO AUTO TAPE SELECT SW. (PL08-7)
Q06, 07 2SD1012x2
Q08, 09 2SC536x2
Q57
Q58
A
B
TAPE 1 PLAY HEAD
PL01
L
R
IC05 LA3160
IC05
IC06 LA3160
VR03 50K-B
VR04 50K-B
Q06
Q07
Q08
Q09
Q10, 11 2SD1012x2
Q12, 13 2SC536x2
D13~18 GMA01x6
IC09 LC7815H
TUNER
TAPE
PHONO
D32 DSF10C
D14
D13
D15
D16
D17
D18
PL05
MIC MIXING P.C.B. ASS'Y 1410-1939-07121
VR01 10K-B
MIC
IC01
MIC JACK
REC MUTE SW.
S-5
Q42~47 2SC536x6
D34~37 GMA01x4
Q42
Q43
Q44
Q45
Q46
Q47
Q20~23 2SC536x4
TP09
R/P 3
R/P 8
Q32

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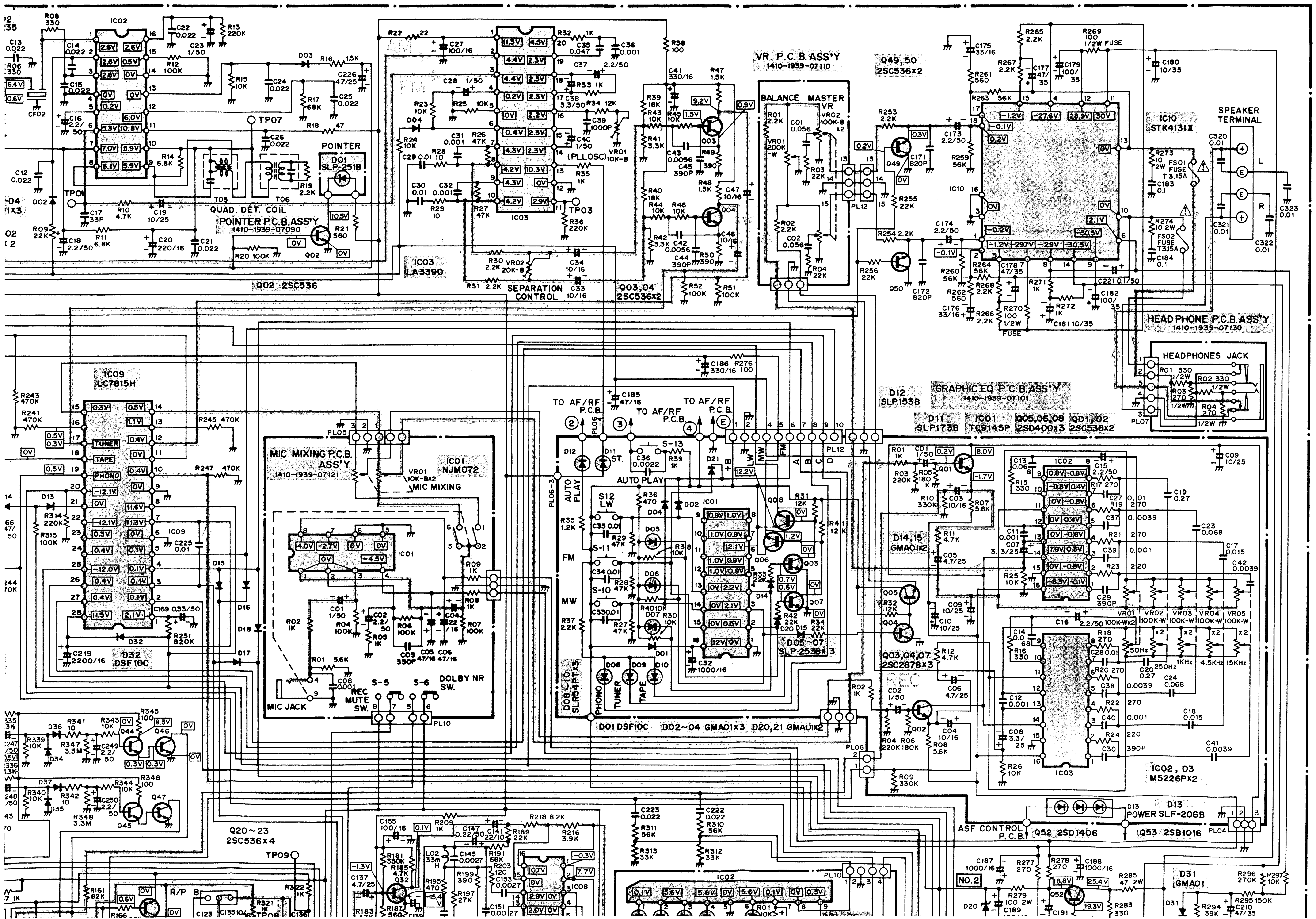
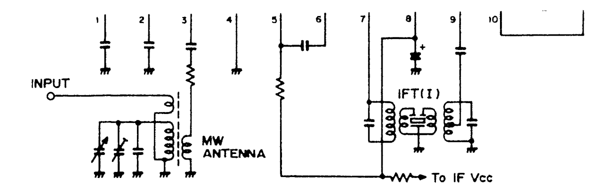
PRODUCT SAFETY NOTICE

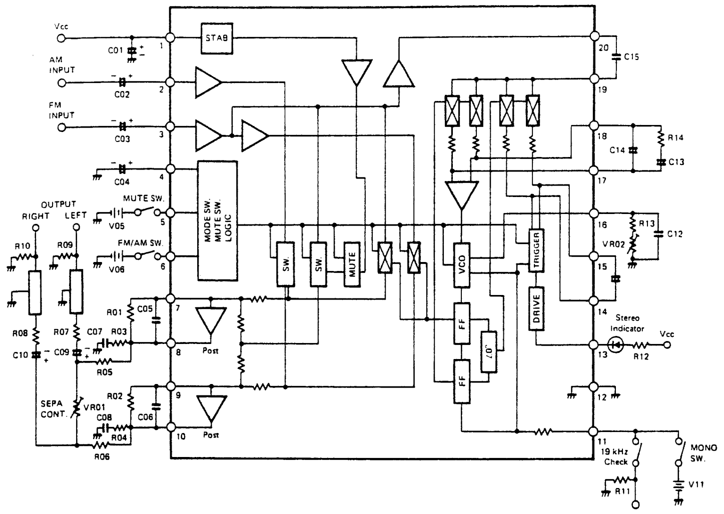
Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.


IC02
IC03
LA3390
QUAD. DET. COIL
POINTER P.C.B. ASS'Y
1410-1939-07090
POINTER
D01
SLP-251B
Q02 2SC536
SEPARATION CONTROL
(PLLOSC)
TP01
TP03
TP07
Q03,04
2SC536x2
VR. P.C.B. ASS'Y
1410-1939-07110
BALANCE
MASTER VR
Q49,50
2SC536x2
IC10
STK4131Ⅱ
SPEAKER TERMINAL
FUSE
HEAD PHONE P.C.B. ASS'Y
1410-1939-07130
HEADPHONES JACK
IC09
LC7815H
TUNER
TAPE
PHONO
D32
DSF10C
MIC MIXING P.C.B. ASS'Y
1410-1939-07121
IC01
NJM072
MIC MIXING
MIC JACK
REC MUTE SW.
DOLBY NR SW.
TO AF/RF P.C.B.
AUTO PLAY
LW
FM
MW
S-13
S-11
S-10
D08~10
SLR54PTx3
D01 DSF10C
D02~04 GMA01x3
D20,21 GMA01x2
D05~07
SLP-253Bx3
D12
SLP153B
GRAPHIC EQ P.C.B. ASS'Y
1410-1939-07101
D11
SLP173B
IC01
TC9145P
Q05,06,08
2SD400x3
Q01,02
2SC536x2
D14,15
GMA01x2
Q03,04,07
2SC2878x3
REC
IC02, 03
M5226Px2
250Hz
1KHz
4.5KHz
15KHz
50Hz
D13
POWER SLF-206B
ASF CONTROL P.C.B.
Q52 2SD1406
Q53 2SB1016
Q20~23
2SC536x4
TP09
R/P
D31
GMA01
NO.2
Q44
Q45
Q46
Q47
Q32
IC08



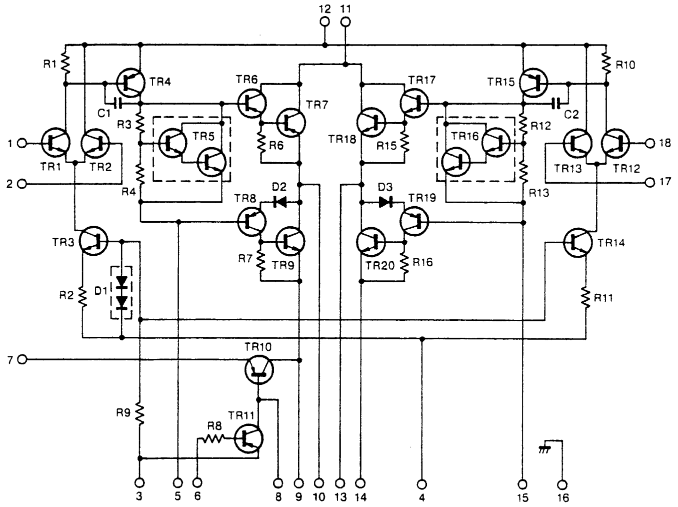
INPUT
MW ANTENNA
IFT(I)
To IF Vcc

FM MPX IC LA 3390



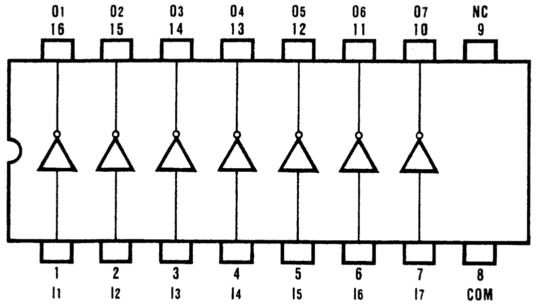
AM INPUT
FM INPUT
OUTPUT
RIGHT
LEFT
MUTE SW.
FM/AM SW.
SEPA CONT
STAB
MODE SW. MUTE SW. LOGIC
VCO
TRIGGER
DRIVE
Post
Stereo Indicator
19 kHz Check
MONO SW.

POWER AMP IC STK 4131 II



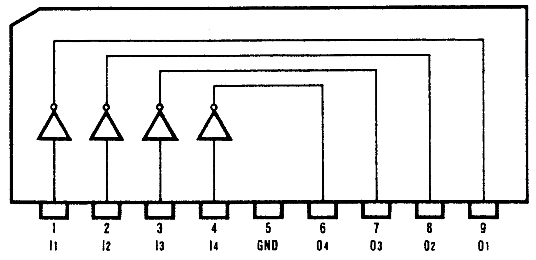
TR1
TR2
TR3
TR4
TR5
TR6
TR7
TR8
TR9
TR10
TR11
TR12
TR13
TR14
TR15
TR16
TR17
TR18
TR19
TR20
D1
D2
D3

TRANSISTOR ALLEY IC TD 62504P

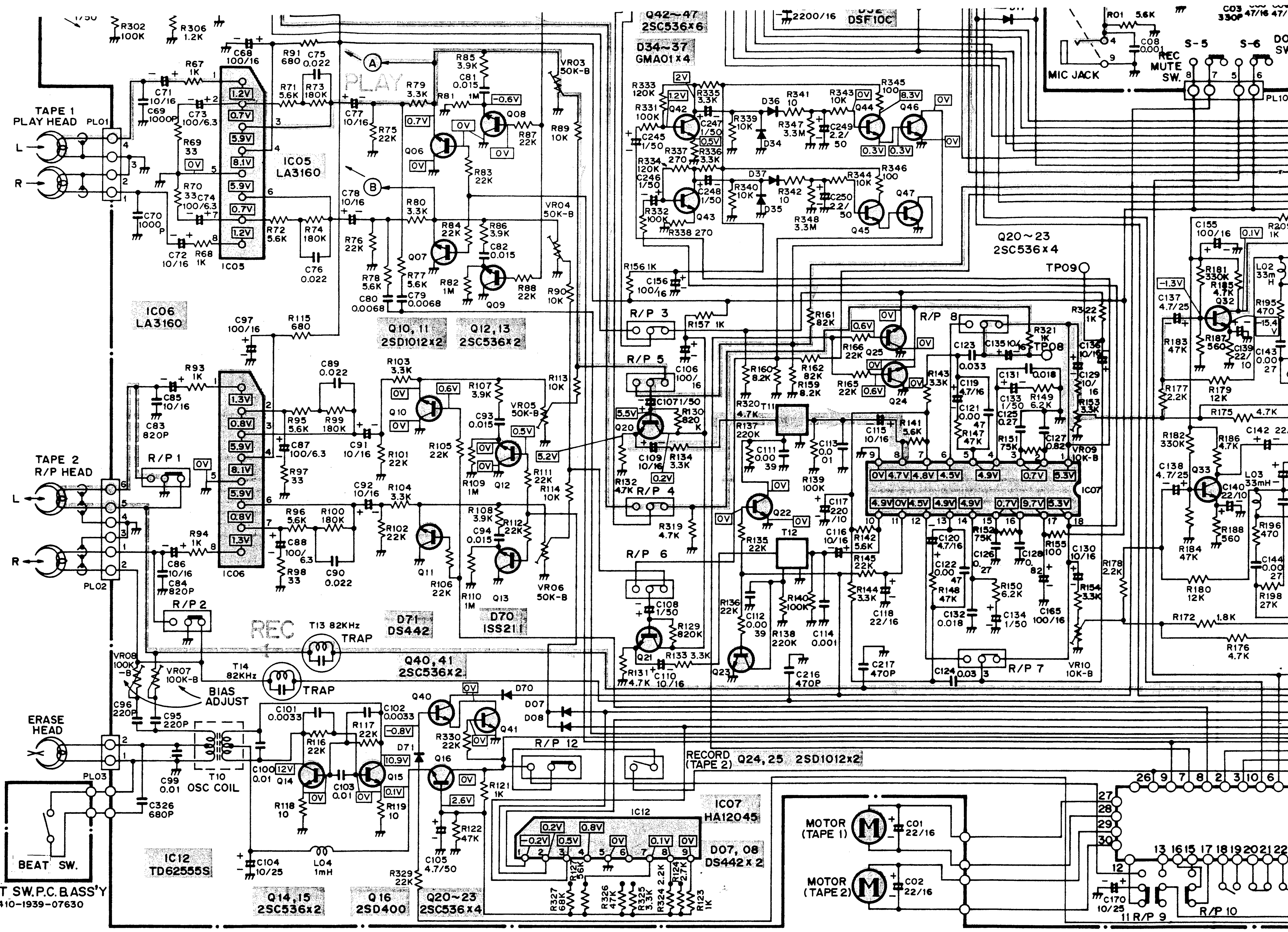


O1 16
O2 15
O3 14
O4 13
O5 12
O6 11
O7 10
NC 9
1 I1
2 I2
3 I3
4 I4
5 I5
6 I6
7 I7
8 COM

TRANSISTOR ALLEY IC TD 62555S



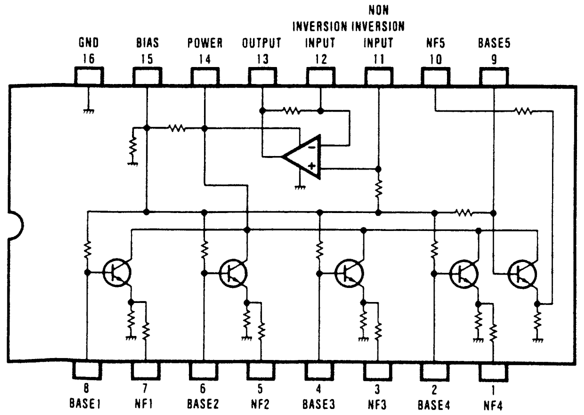
1 I1
2 I2
3 I3
4 I4
5 GND
6 O4
7 O3
8 O2
9 O1



TAPE 1 PLAY HEAD
TAPE 2 R/P HEAD
ERASE HEAD
PL01
PL02
PL03
IC05 LA3160
IC06 LA3160
PLAY
REC
Q10, 11 2SD1012x2
Q12, 13 2SC536x2
D71 DS442
D70 ISS211
T13 82KHz TRAP
T14 82KHz TRAP
BIAS ADJUST
T10 OSC COIL
Q40, 41 2SC536x2
IC12 TD62555S
Q14, 15 2SC536x2
Q16 2SD400
Q20~23 2SC536x4
BEAT SW.
BEAT SW.P.C.B.ASS'Y 1410-1939-07630
RECORD (TAPE 2) Q24, 25 2SD1012x2
IC07 HA12045
D07, 08 DS442x2
MOTOR (TAPE 1)
MOTOR (TAPE 2)
Q42~47 2SC536x6
D34~37 GMA01x4
MIC JACK
REC MUTE SW.
S-5
S-6
TP08
TP09
R/P 1
R/P 2
R/P 3
R/P 4
R/P 5
R/P 6
R/P 7
R/P 8
R/P 9
R/P 10
R/P 12
VR03 50K-B
VR04 50K-B
VR05 50K-B
VR06 50K-B
VR07 100K-B
VR08 100K-B
VR09 10K-B
VR10 10K-B
L02 33mH
L03 33mH
L04 1mH

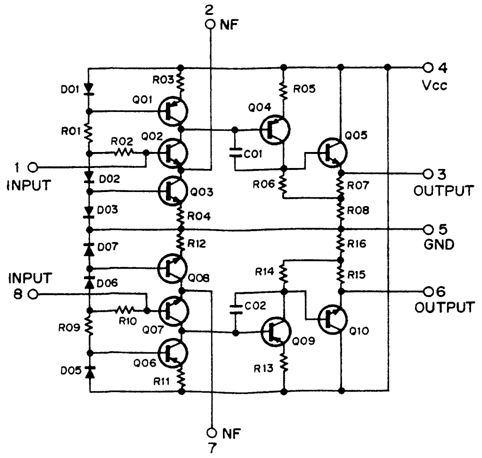
Because Fisher products are subject to continuous improvement, Fisher Corporation reserves the right to make any ch
modifications without notice.

GRAPHIC EQUALIZER AMP IC M 5226 P



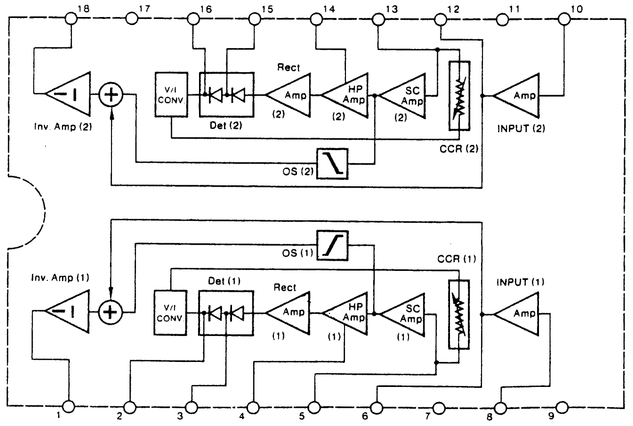
GND 16
BIAS 15
POWER 14
OUTPUT 13
NON INVERSION INPUT 12
INVERSION INPUT 11
NF5 10
BASE5 9
8 BASE1
7 NF1
6 BASE2
5 NF2
4 BASE3
3 NF3
2 BASE4
1 NF4

REC / PLAY AMP IC LA 3160



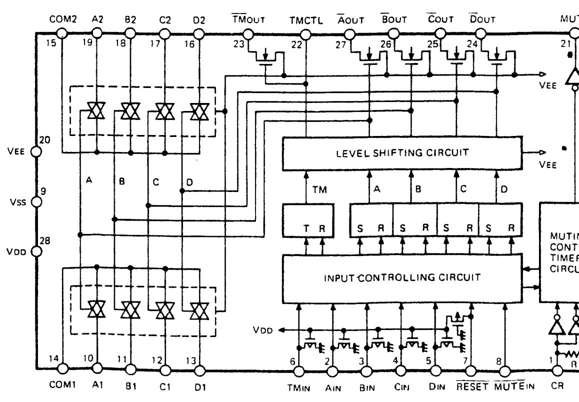
2 NF
4 Vcc
1 INPUT
3 OUTPUT
5 GND
INPUT 8
6 OUTPUT
7 NF

DOLBY NR IC HA 12045

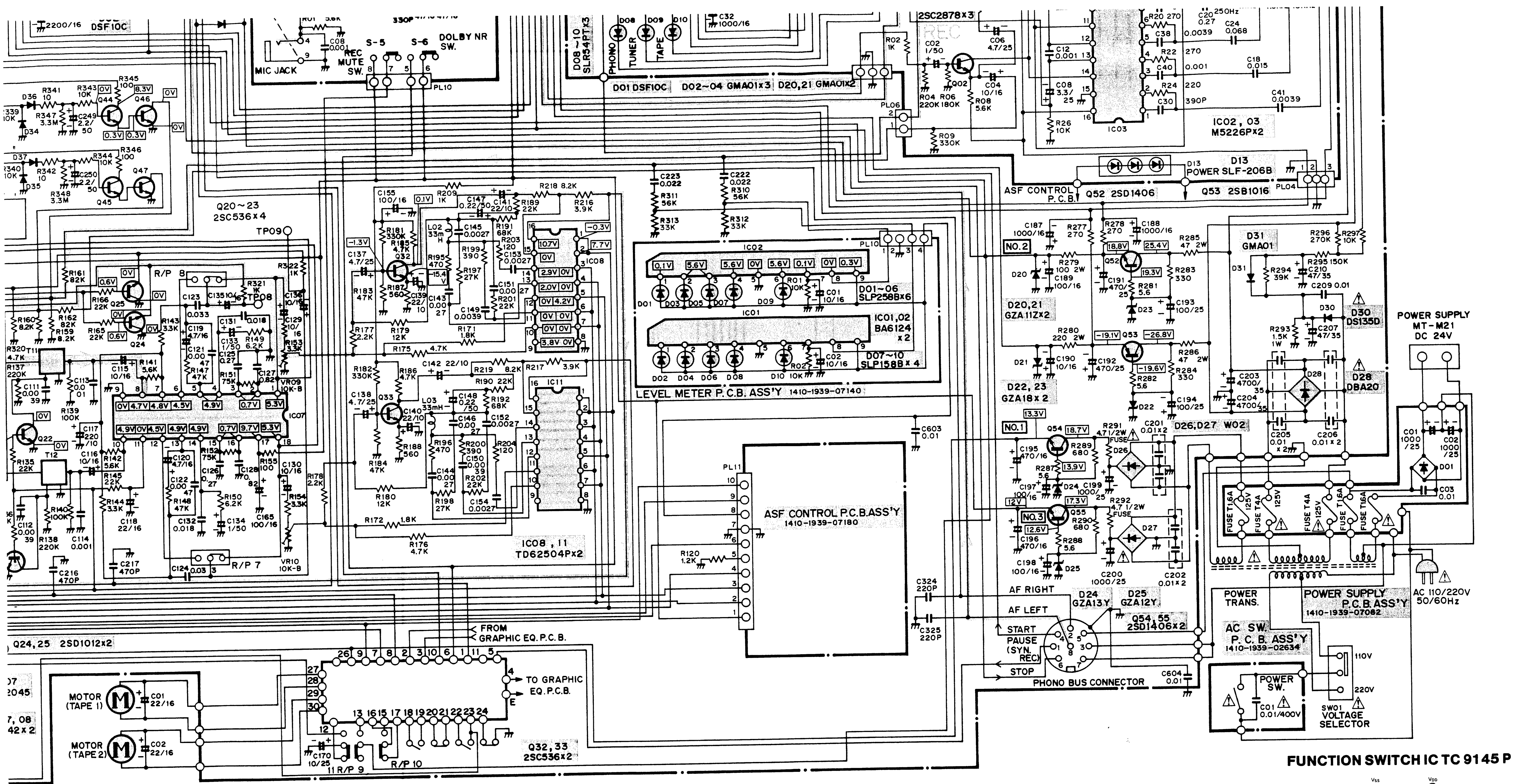


Inv. Amp (2)
V/I CONV
Det (2)
Rect Amp (2)
HP Amp (2)
SC Amp (2)
CCR (2)
Amp
INPUT (2)
OS (2)
OS (1)
CCR (1)
Inv. Amp (1)
Det (1)
Rect Amp (1)
HP Amp (1)
SC Amp (1)
INPUT (1)

ANALOGUE FUNCTION SWITCH IC LC 781



COM2
A2
B2
C2
D2
TMOUT
TMCTL
AOUT
BOUT
COUT
DOUT
VEE
VSS
VDD
LEVEL SHIFTING CIRCUIT
INPUT CONTROLLING CIRCUIT
COM1
A1
B1
C1
D1
TMIN
AIN
BIN
CIN
DIN
RESET
MUTE IN

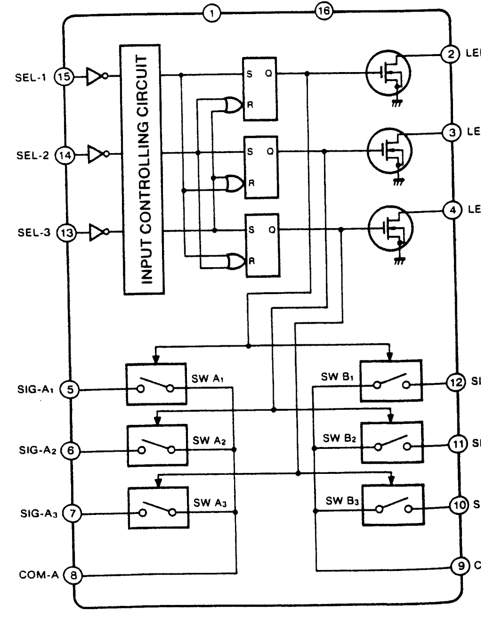

MIC JACK
REC MUTE SW.
S-5
S-6
DOLBY NR SW.
PHONO
TUNER
TAPE
D08~10 SLR54PTx3
D01 DSF10C
D02~04 GMA01x3
D20,21 GMA01x2
2SC2878x3
IC02, 03 M5226Px2
D13 POWER SLF-206B
ASF CONTROL P.C.B.
Q52 2SD1406
Q53 2SB1016
Q20~23 2SC536x4
TP09
TP08
R/P 8
R/P 7
IC07
IC08, 11 TD62504Px2
D01~06 SLP258Bx6
IC01,02 BA6124 x2
D07~10 SLP158B x 4
LEVEL METER P.C.B. ASS'Y 1410-1939-07140
ASF CONTROL P.C.B.ASS'Y 1410-1939-07180
PL11
D20,21 GZA11Zx2
D22, 23 GZA18x2
D26,D27 W02
D28 DBA20
D30 DS135D
D31 GMA01
POWER SUPPLY MT-M21 DC 24V
POWER TRANS.
POWER SUPPLY P.C.B ASS'Y 1410-1939-07082
AC 110/220V 50/60Hz
AC SW. P.C.B. ASS'Y 1410-1939-02634
POWER SW.
SW01 VOLTAGE SELECTOR
110V
220V
D24 GZA13Y
D25 GZA12Y
Q54, 55 2SD1406x2
AF RIGHT
AF LEFT
START
PAUSE (SYN. REC)
STOP
PHONO BUS CONNECTOR
FROM GRAPHIC EQ.P.C.B.
TO GRAPHIC EQ.P.C.B.
Q24,25 2SD1012x2
MOTOR (TAPE 1)
MOTOR (TAPE 2)
R/P 9
R/P 10
Q32, 33 2SC536x2

ucts are subject to continuous improvement, Fisher Corporation reserves the right to make any changes or notice.

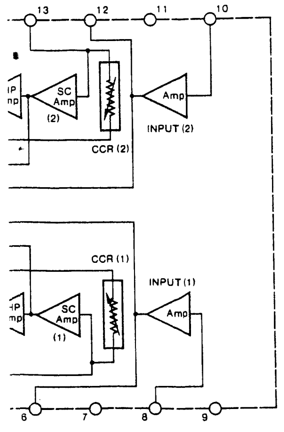
NOTES:

1. All resistors values are indicated in "ohm" (K=10^3, M=10^6).
2. All capacitors values are indicated in "μF" (P=10^{-12}).
3. All voltages indicated on the schematics are measured under the following conditions.
   a. Use a V.T.V.M.
   b. All voltages ±10% with respect to chassis ground
   c. No signals at input terminals
   d. AC input at 220 volts 50 Hz
4. This is a basic schematic diagram.

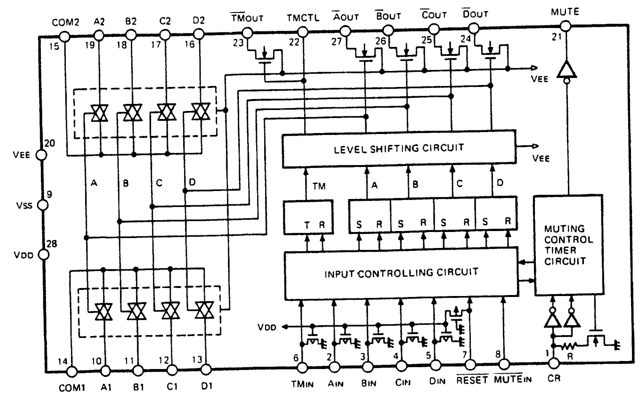
FUNCTION SWITCH IC TC 9145 P


Vss
VDD
SEL-1
SEL-2
SEL-3
INPUT CONTROLLING CIRCUIT
LED-1
LED-2
LED-3
SIG-A1
SIG-A2
SIG-A3
SW A1
SW A2
SW A3
SW B1
SW B2
SW B3
SIG-B1
SIG-B2
SIG-B3
COM-A
COM-B

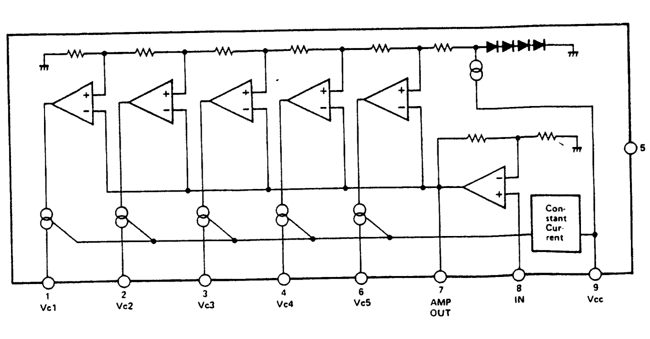
A 12045


SC Amp (2)
CCR (2)
Amp
INPUT (2)
CCR (1)
SC Amp (1)
Amp
INPUT (1)

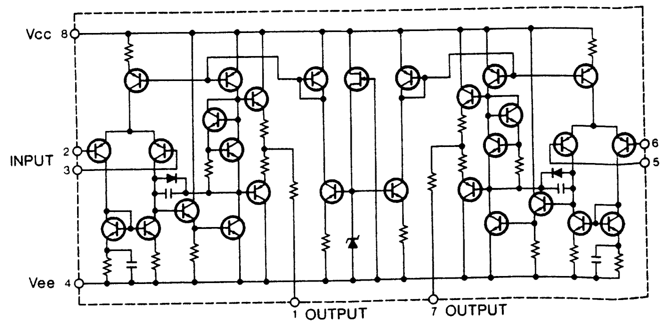
ANALOGUE FUNCTION SWITCH IC LC 7815 H


COM2
A2
B2
C2
D2
TMOUT
TMCTL
AOUT
BOUT
COUT
DOUT
MUTE
VEE
VSS
VDD
LEVEL SHIFTING CIRCUIT
INPUT CONTROLLING CIRCUIT
MUTING CONTROL TIMER CIRCUIT
COM1
A1
B1
C1
D1
TMIN
AIN
BIN
CIN
DIN
RESET
MUTEIN
CR

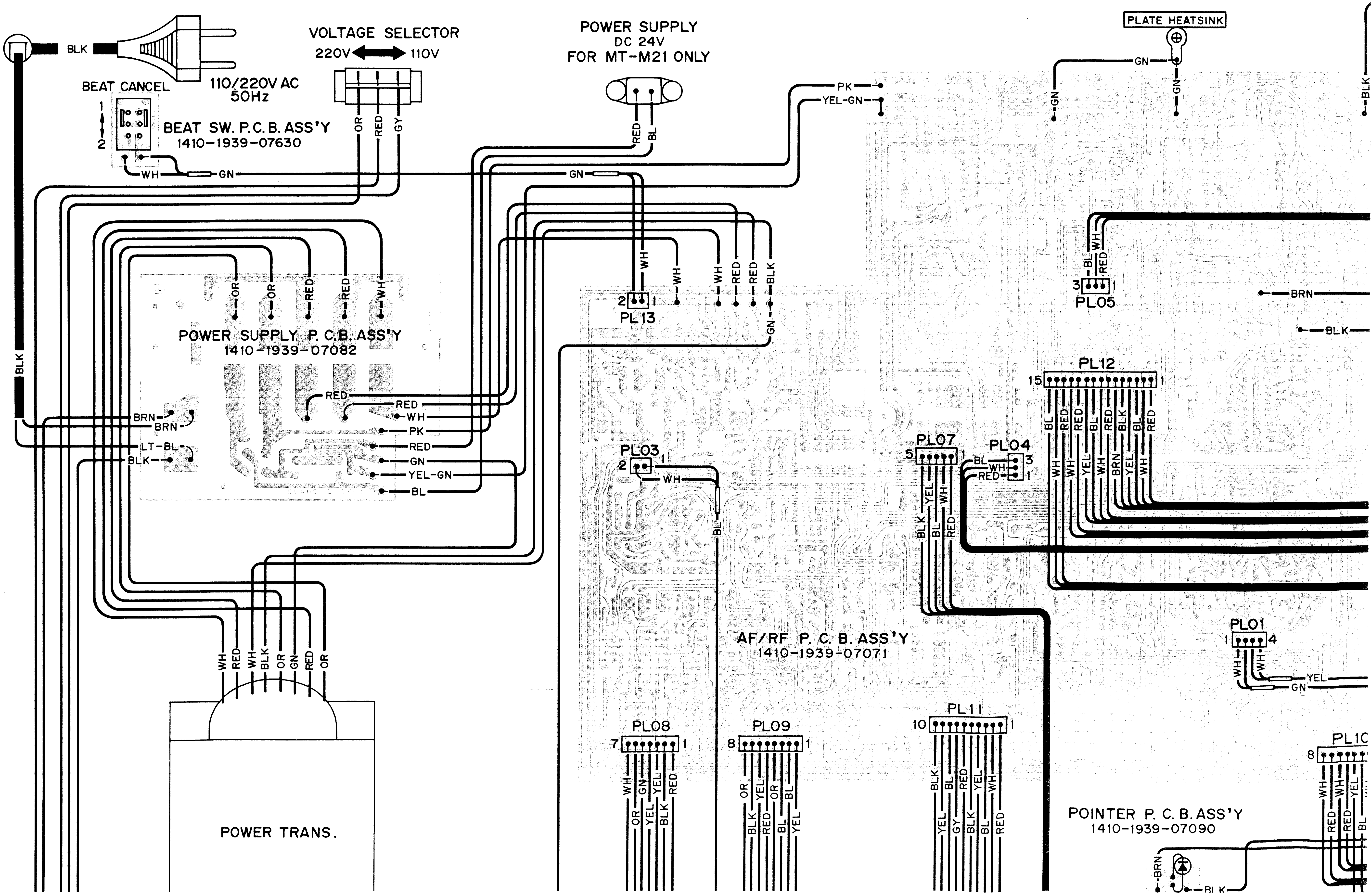
LEVEL METER IC BA 6124


5 GND
Constant Current
Vc1
Vc2
Vc3
Vc4
Vc5
AMP OUT
IN
Vcc

MIC AMP IC LA 6458 DX


Vcc
INPUT
Vee
INPUT
1 OUTPUT
7 OUTPUT

POINT TO POINT WIRING DI


BLK
110/220V AC
50Hz
BEAT CANCEL
1
2
BEAT SW. P.C.B. ASS'Y
1410-1939-07630
WH
GN
VOLTAGE SELECTOR
220V
110V
OR
RED
GY
POWER SUPPLY
DC 24V
FOR MT-M21 ONLY
RED
BL
PK
YEL-GN
PLATE HEATSINK
GN
BLK
POWER SUPPLY P. C. B. ASS'Y
1410-1939-07082
OR
OR
RED
RED
WH
BRN
BRN
LT-BL
BLK
RED
RED
WH
PK
RED
GN
YEL-GN
BL
WH
WH
WH
RED
RED
BLK
GN
PL13
2
1
PL03
2
1
WH
BL
PL05
3
1
BL
WH
RED
BRN
BLK
PL12
15
1
BL
RED
RED
BL
RED
BLK
BL
RED
WH
WH
YEL
WH
BRN
YEL
WH
PL07
5
1
YEL
WH
BLK
BL
RED
PL04
3
1
BL
WH
RED
AF/RF P. C. B. ASS'Y
1410-1939-07071
PL01
1
4
WH
WH
YEL
GN
WH
RED
WH
BLK
OR
GN
RED
OR
POWER TRANS.
PL08
7
1
WH
GN
YEL
RED
OR
YEL
BLK
PL09
8
1
OR
YEL
OR
BL
BLK
RED
BL
YEL
PL11
10
1
BLK
BL
RED
YEL
WH
YEL
GY
BLK
BL
RED
POINTER P. C. B. ASS'Y
1410-1939-07090
PL1
8
WH
WH
YEL
RED
RED
BL
BRN
BLK

NT TO POINT WIRING DIAGRAM

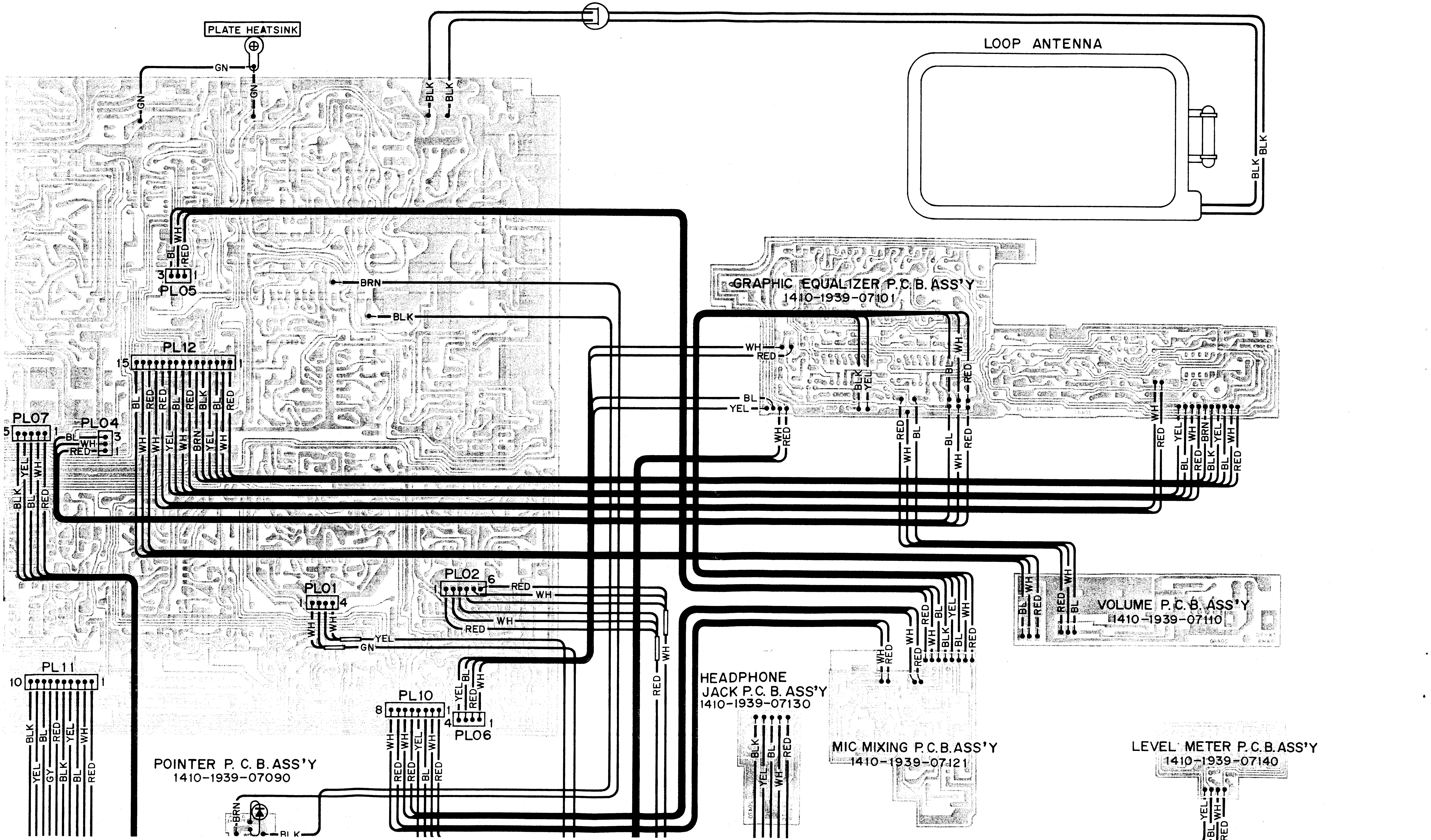
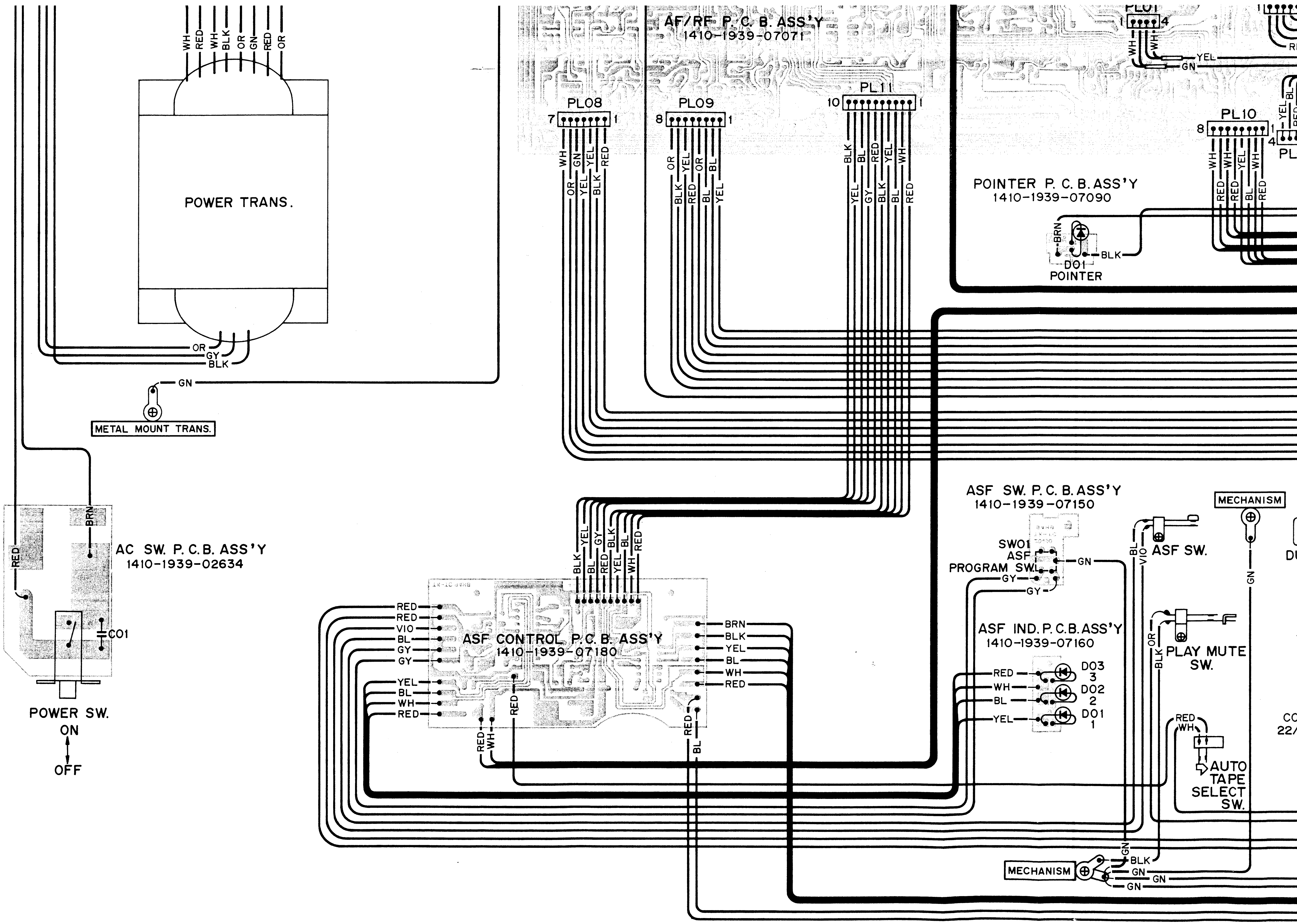
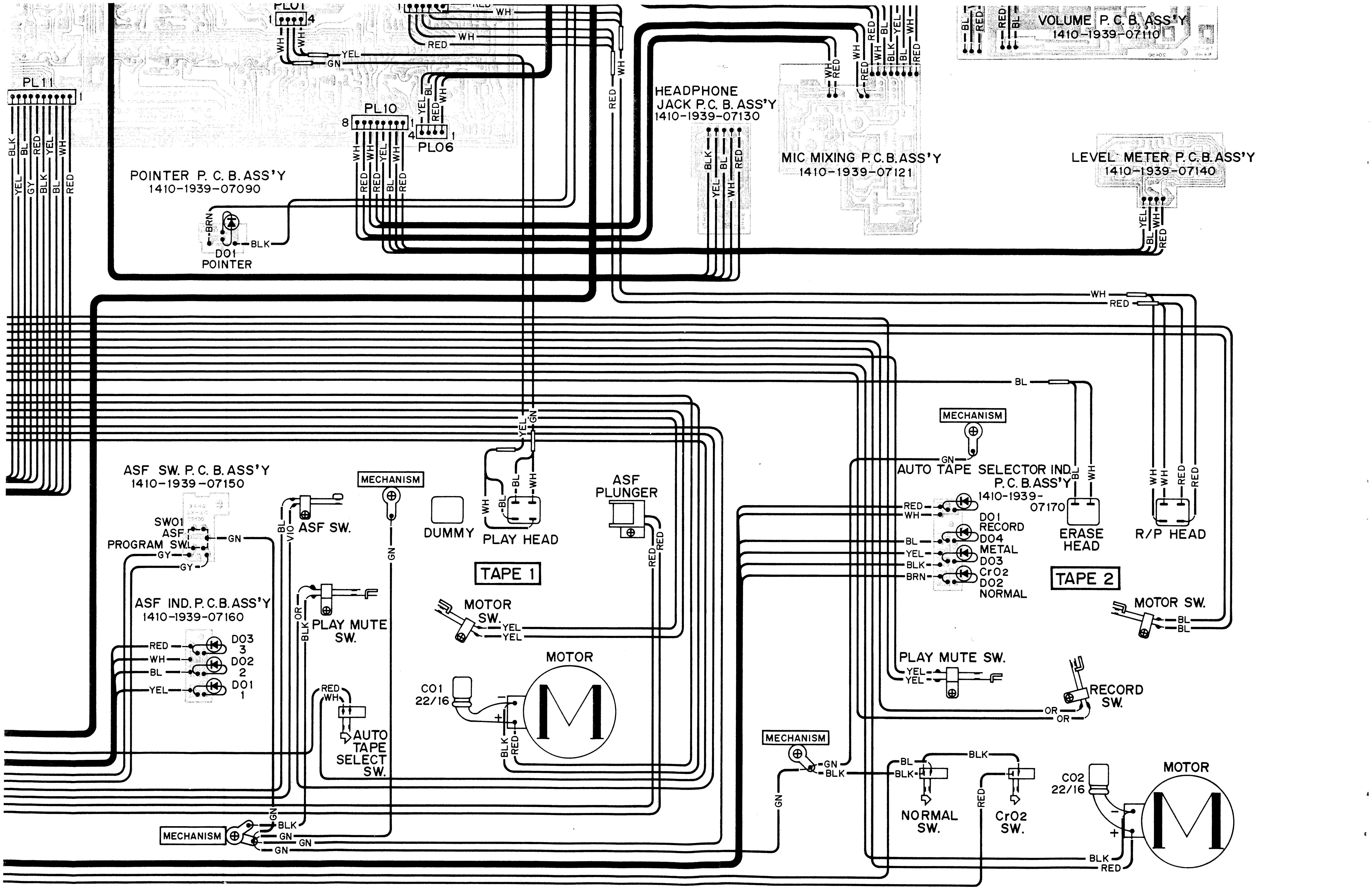


PLATE HEATSINK
GN
BLK
LOOP ANTENNA
GRAPHIC EQUALIZER P.C.B. ASS'Y
1410-1939-07101
VOLUME P.C.B. ASS'Y
1410-1939-07110
HEADPHONE
JACK P.C.B. ASS'Y
1410-1939-07130
MIC MIXING P.C.B. ASS'Y
1410-1939-07121
LEVEL METER P.C.B. ASS'Y
1410-1939-07140
POINTER P.C.B. ASS'Y
1410-1939-07090
PL01
PL02
PL04
PL05
PL06
PL07
PL10
PL11
PL12
BRN
WH
RED
BL
YEL
GY


WH
RED
WH
BLK
OR
GN
RED
OR
POWER TRANS.
OR
GY
BLK
GN
METAL MOUNT TRANS.
AF/RF P. C. B. ASS'Y
1410-1939-07071
PL08
7
1
WH
GN
YEL
BLK
RED
OR
PL09
8
1
OR
YEL
OR
BL
BLK
RED
PL11
10
1
BLK
BL
RED
YEL
WH
GY
PL01
1
4
WH
WH
YEL
GN
PL10
8
1
4
POINTER P. C. B. ASS'Y
1410-1939-07090
BRN
BLK
D01
POINTER
RED
BRN
AC SW. P. C. B. ASS'Y
1410-1939-02634
C01
POWER SW.
ON
OFF
ASF CONTROL P. C. B. ASS'Y
1410-1939-07180
VIO
BL
GY
YEL
WH
ASF SW. P. C. B. ASS'Y
1410-1939-07150
SW01
ASF
PROGRAM SW.
GY
GN
ASF IND. P. C. B. ASS'Y
1410-1939-07160
D03
3
D02
2
D01
1
MECHANISM
ASF SW.
VIO
PLAY MUTE SW.
AUTO TAPE SELECT SW.
MECHANISM
GN


PL01
PL11
PL10
PL06
VOLUME P.C.B. ASS'Y
1410-1939-07110
HEADPHONE
JACK P.C.B. ASS'Y
1410-1939-07130
MIC MIXING P.C.B. ASS'Y
1410-1939-07121
LEVEL METER P.C.B. ASS'Y
1410-1939-07140
POINTER P.C.B. ASS'Y
1410-1939-07090
D01
POINTER
ASF SW. P.C.B. ASS'Y
1410-1939-07150
SW01
ASF
PROGRAM SW.
ASF SW.
MECHANISM
DUMMY
PLAY HEAD
ASF
PLUNGER
TAPE 1
ASF IND. P.C.B. ASS'Y
1410-1939-07160
D03
3
D02
2
D01
1
PLAY MUTE
SW.
MOTOR
SW.
MOTOR
C01
22/16
AUTO
TAPE
SELECT
SW.
AUTO TAPE SELECTOR IND.
P.C.B. ASS'Y
1410-1939-07170
D01
RECORD
D04
METAL
D03
CrO2
D02
NORMAL
ERASE
HEAD
R/P HEAD
TAPE 2
MOTOR SW.
PLAY MUTE SW.
RECORD
SW.
NORMAL
SW.
CrO2
SW.
C02
22/16
MOTOR
WH
RED
YEL
GN
BL
BLK
GY
BRN
VIO
OR